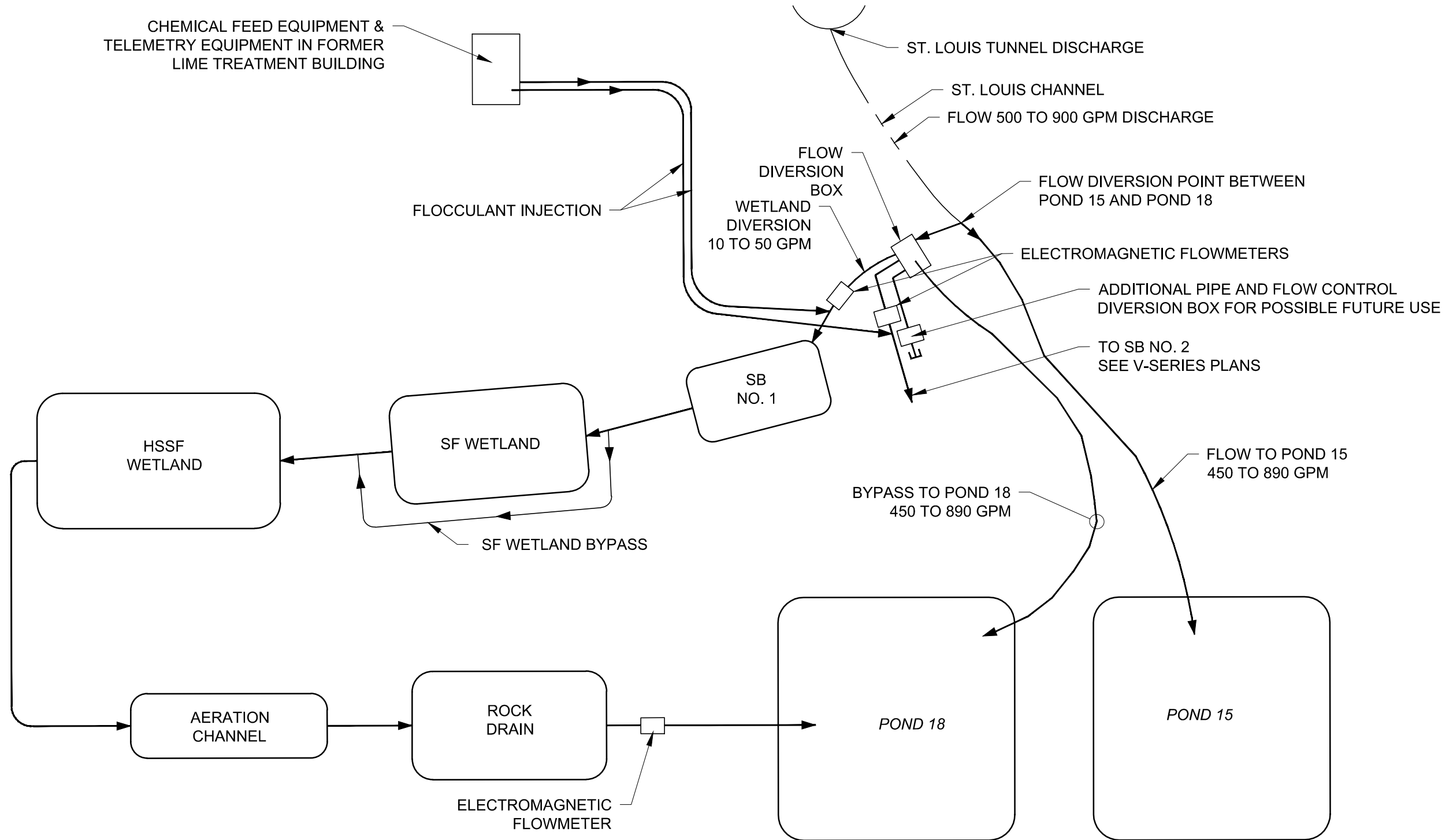


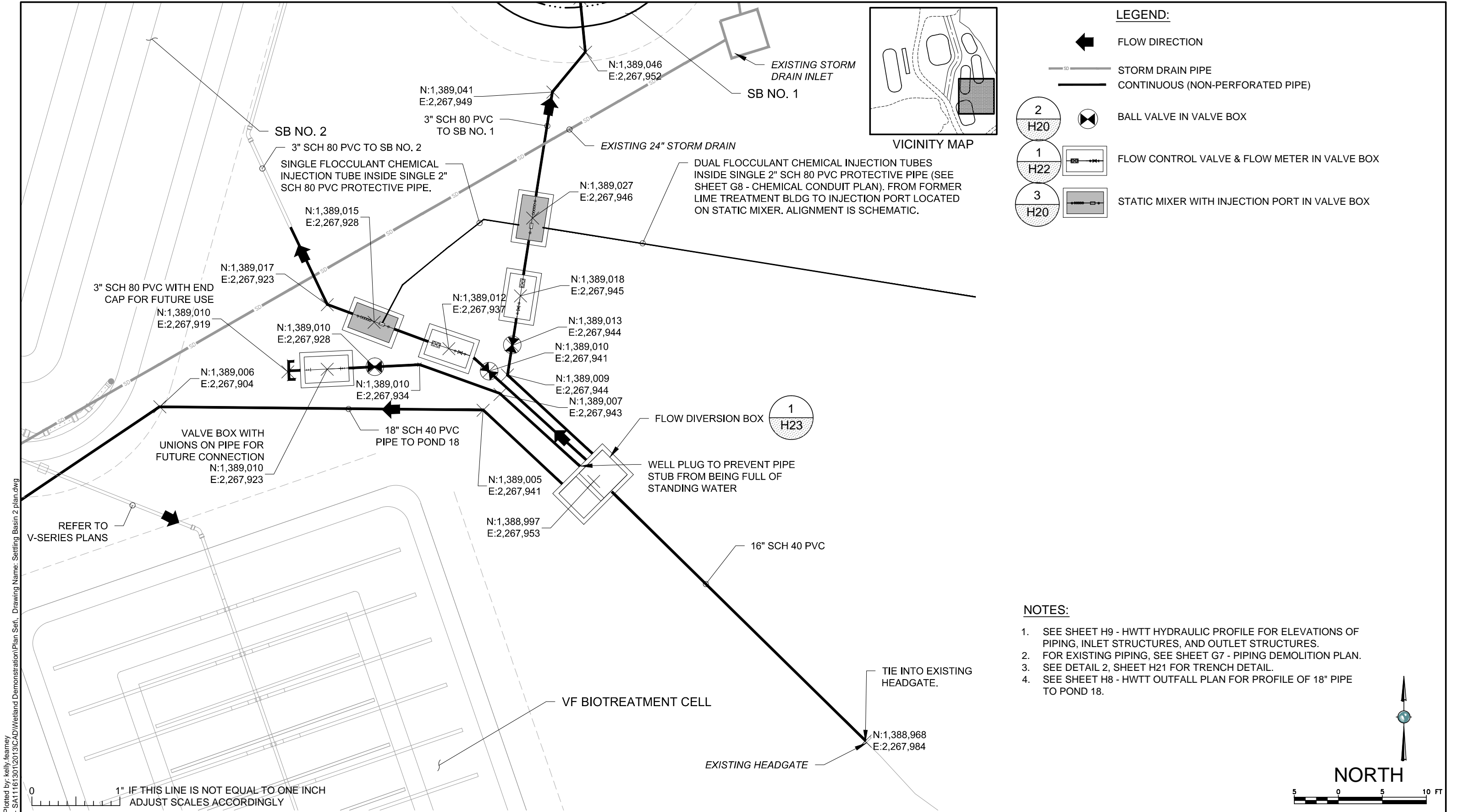
Plot Date: 12/24/13 - 1:47pm, Plotted by: kelly.learney
Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set\, Drawing Name: Process Flow Diagram.dwg



0 1" IF THIS LINE IS NOT EQUAL TO ONE INCH
ADJUST SCALES ACCORDINGLY

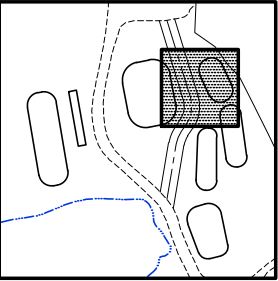
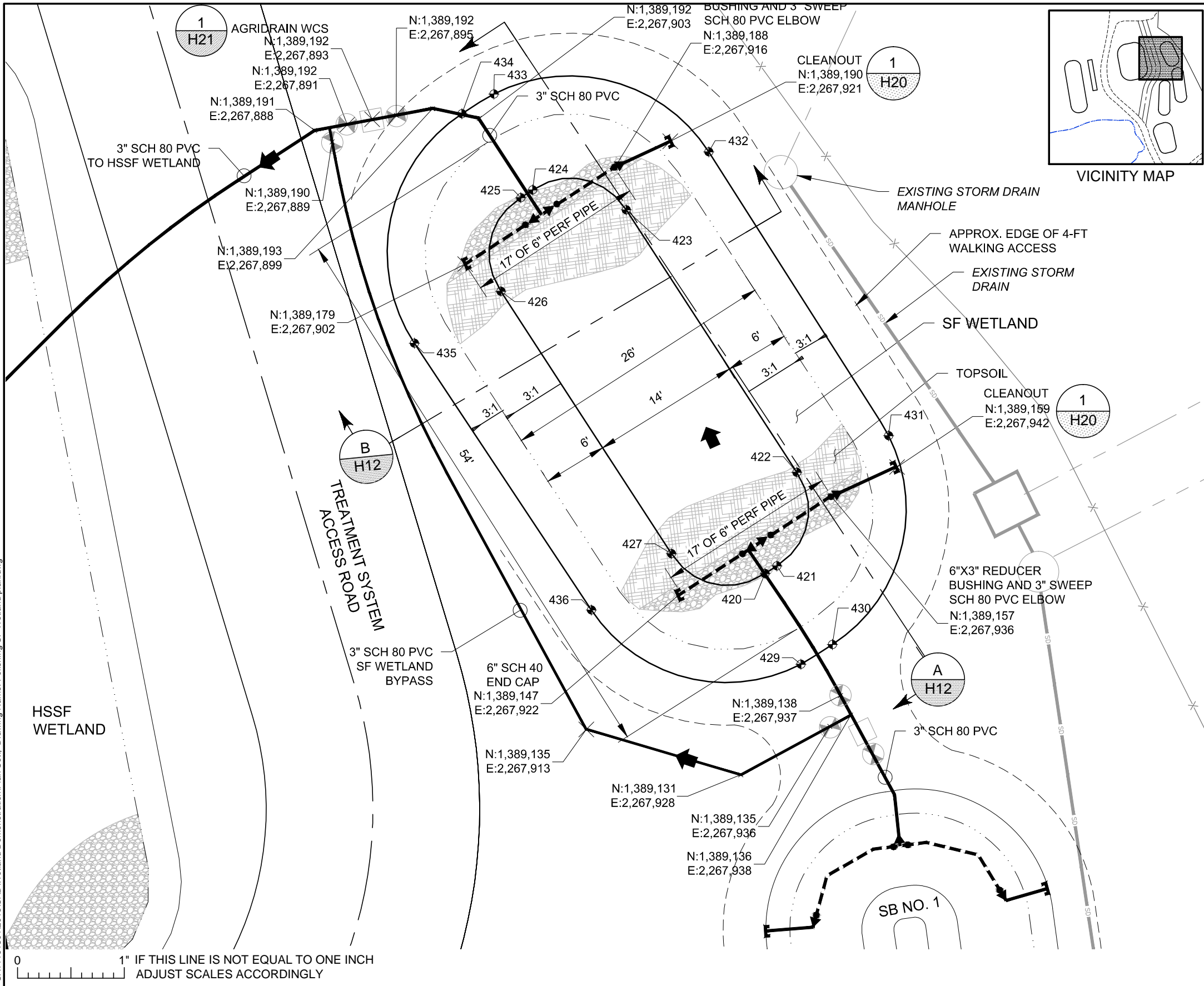
NOT TO SCALE

REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN_____KF	<div> 10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200</div>	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13	
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED_____KF				SCALE: NTS	
					CHECKED_____CBF				SHEET: 1 OF 25	
					REVIEWED_____STA		HWTW PROCESS FLOW DIAGRAM		PROJ No:	H1
									SA11161315	
DATUM UTM ZONE 125 FEET, NAD 83										



Plot Date: 12/24/13 - 1:47pm, Plotted by: kelly. leamey
Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set, Drawing Name: Settling Basin 2 plan.dwg

REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN	DWW	<div>amec</div> <div>10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200</div>	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13	
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED	KF				SCALE: 1" = 10'	
					CHECKED	CBF		FLOW DIVERSION PLAN		SHEET: 2 OF 25	
					REVIEWED	STA				PROJ No: SA11161315	H2
DATUM UTM ZONE 125 FEET, NAD 83											



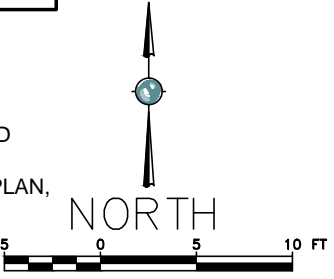
VICINITY MAP

LEGEND

- FLOW DIRECTION
- FINAL GRADING POINT
- PERFORATED PIPE
- STORM DRAIN PIPE
- CONTINUOUS (NON-PERFORATED PIPE)
- TRANSITION FROM PERF PIPE TO NON-PERF PIPE
- REDUCER BUSHING
- BALL VALVE IN VALVE BOX

FINAL GRADING POINT TABLE				
POINT #	NORTHING	EASTING	ELEV.	DESC.
420	1,389,149.51	2,267,929.89	8836.35	BOM
421	1,389,150.23	2,267,931.00	8836.35	BOM
422	1,389,159.00	2,267,932.86	8836.30	BOM
423	1,389,183.59	2,267,916.88	8836.20	BOM
424	1,389,185.45	2,267,908.11	8836.15	BOM
425	1,389,184.73	2,267,907.00	8836.15	BOM
426	1,389,175.96	2,267,905.14	8836.20	BOM
427	1,389,151.37	2,267,921.12	8836.30	BOM
429	1,389,141.02	2,267,933.24	8839.35	TOB
430	1,389,142.86	2,267,936.20	8839.35	TOB
431	1,389,162.42	2,267,941.47	8839.35	TOB
432	1,389,189.02	2,267,924.62	8839.35	TOB
433	1,389,194.44	2,267,904.49	8839.35	TOB
434	1,389,192.59	2,267,901.49	8839.35	TOB
435	1,389,171.09	2,267,897.04	8839.35	TOB
436	1,389,146.10	2,267,913.63	8839.35	TOB

- NOTES:
- SEE HYDRAULIC PROFILE, SHEET H9, FOR ELEVATIONS OF PIPES, INLET STRUCTURES, AND OUTLET STRUCTURES.
 - FOR EXISTING PIPES, SEE PIPING DEMOLITION PLAN, SHEET G7.
 - SEE CROSS SECTIONS FOR MATRIX MATERIAL.
 - SEE DETAIL 2, SHEET H21 FOR TRENCH DETAIL.



Plot Date: 12/24/13 - 1:48pm, Plotted by: kelly.leaney

Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set\ Drawing Name: Polishing SF Wetland plan.dwg

REFERENCES:	NO.	REVISION	DATE	APRVD	DRAWN	DESIGNED	CHECKED	REVIEWED
PLANS	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	KF	KF	CBF	STA

DATUM

UTM ZONE 125

FEET, NAD 83

10670 White Rock Road, Suite 100

Rancho Cordova, CA 95670

(916) 636-3200

RICO - ARGENTINE MINE SITE

WETLAND DEMONSTRATION

SF WETLAND PLAN

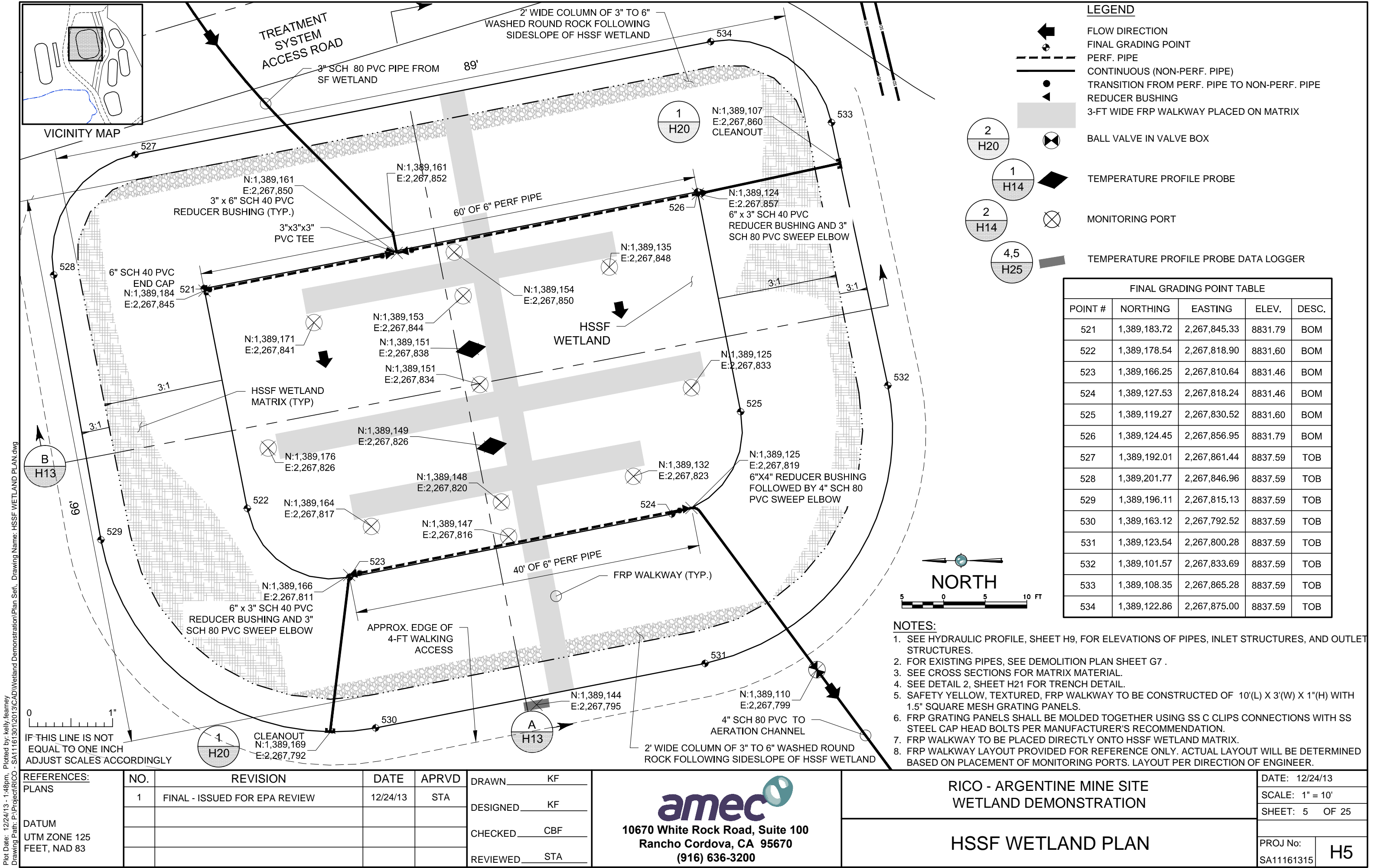
DATE: 12/24/13

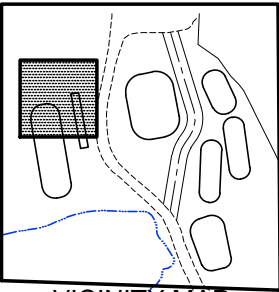
SCALE: 1" = 10'

SHEET: 4 OF 25

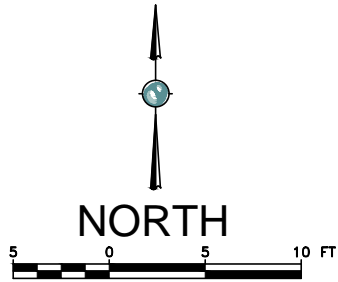
PROJ No: SA11161315

H4





VICINITY MAP



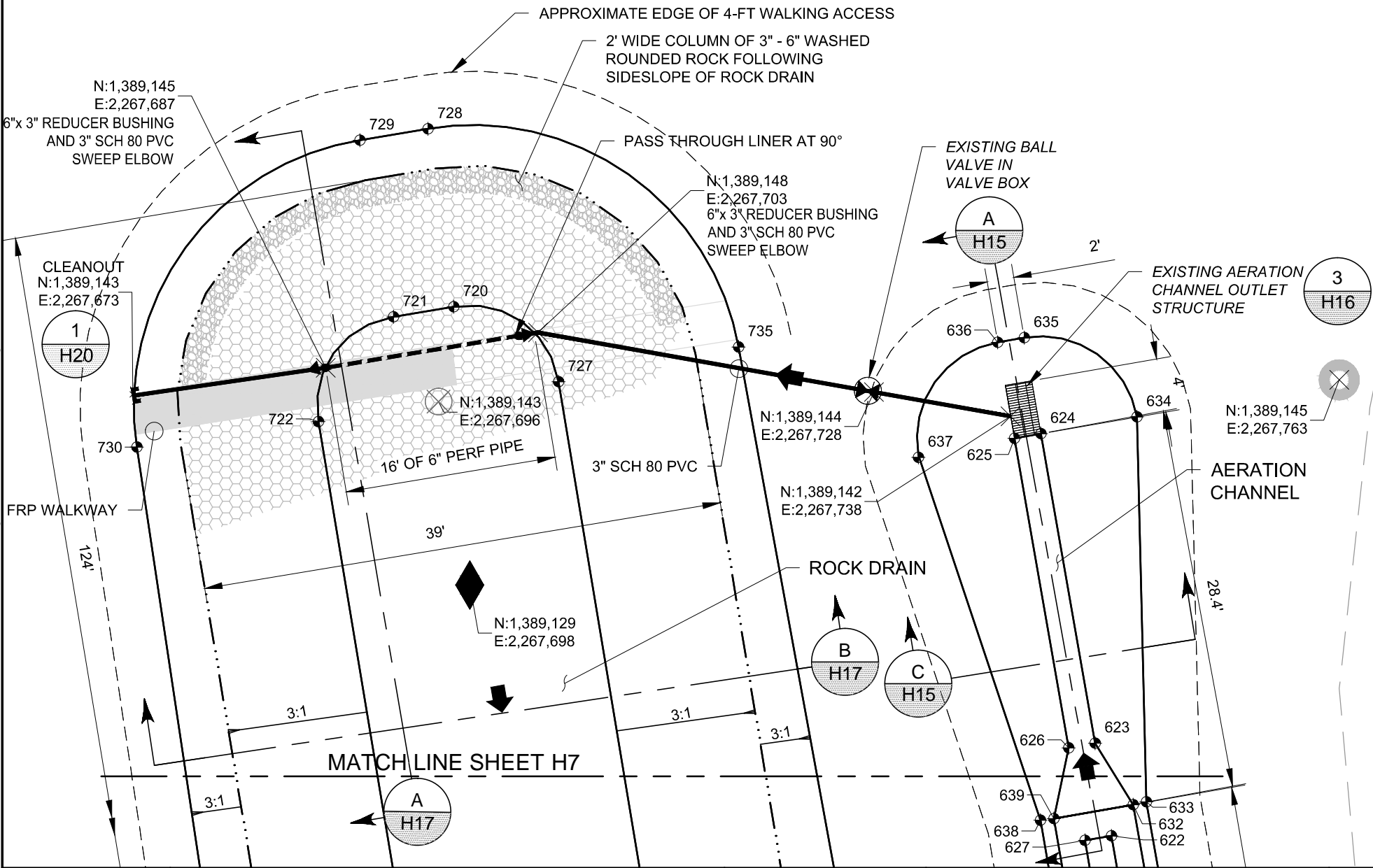
NOTES:

- 1. SEE SHEET H7 - ROCK DRAIN PLAN FOR ROCK DRAIN POINT TABLE
- 2. SHEET SHEET H9 - HWTT HYDRAULIC PROFILE, FOR ELEVATIONS OF PIPES, INLET STRUCTURES, AND OUTLET STRUCTURES.
- 3. FOR EXISTING PIPES, SEE SHEET G7 - PIPING DEMOLITION PLAN.
- 4. SEE CROSS SECTIONS FOR ROCK FILL.
- 5. SEE DETAIL 2, SHEET H21 FOR TRENCH DETAIL.
- 6. SAFETY YELLOW, TEXTURED FRP WALKWAY TO BE CONSTRUCTED OF 10'(L) X 3'(W) X 1"(H) WITH 1.5" SQUARE MESH GRATING PANELS.
- 7. FRP GRATING PANELS SHALL BE HELD TOGETHER USING SS C CLIPS CONNECTIONS WITH SS STEEL CAP HEAD BOLTS PER MANUFACTURE'S RECOMMENDATION.
- 8. FRP WALKWAY TO BE PLACED DIRECTLY ONTO LIMESTONE ROCK MATRIX.
- 9. FRP WALKWAY LAYOUT PROVIDED FOR REFERENCE ONLY. ACTUAL LAYOUT WILL BE DETERMINED BASED ON PLACEMENT OF MONITORING PORTS. LAYOUT PER DIRECTION OF ENGINEER.
- 10. CONNECT H2S SENSOR TO 16" SPIRAL FOLDING RING ANCHOR (VORTEX BRAND OR EQUIVALENT) WITH 1/8" WIRE CABLE USING WIRE ROPE CLIPS.

LEGEND

 FLOW DIRECTION
 FINAL GRADING POINT
 PERF. PIPE
 CONTINUOUS (NON-PERF. PIPE)
 TRANSITION TO/FROM PERF. PIPE TO NON-PERF. PIPE
 REDUCER BUSHING
 3-FT WIDE FRP WALKWAY
 BALL VALVE IN VALVE BOX
 TEMPERATURE PROFILE PROBE
 MONITORING PORT
 FIXED H2S SENSOR

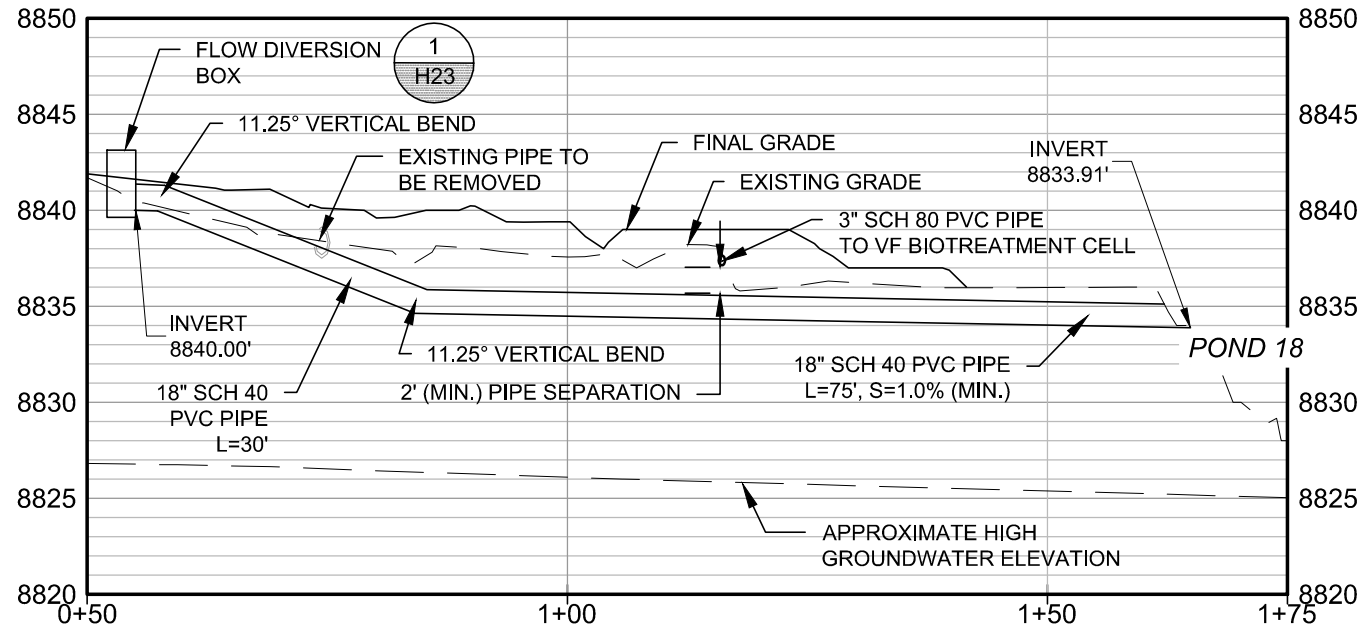
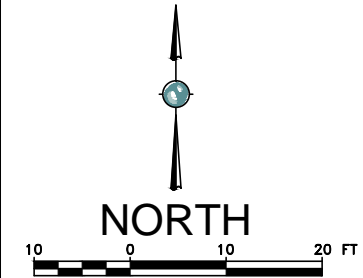
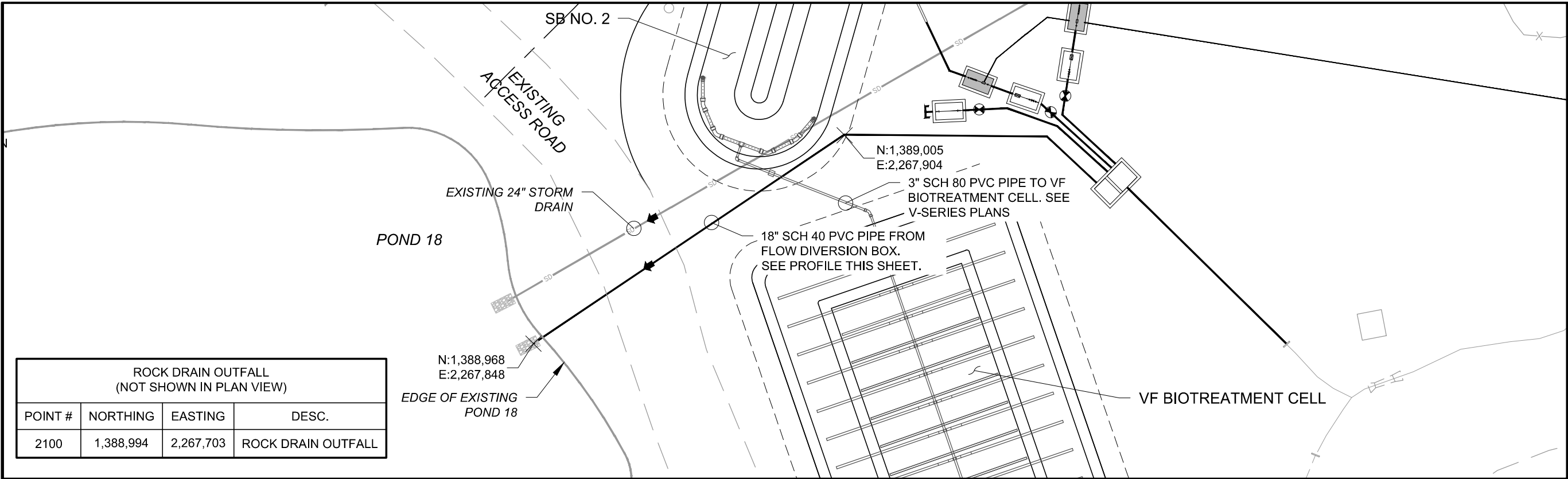
POINT #	NORTHING	EASTING	ELEV.	DESC.
620	1,389,083.06	2,267,748.67	8830.61	BOM
621	1,389,083.40	2,267,750.64	8830.61	BOM
622	1,389,110.59	2,267,745.89	8830.61	BOM
623	1,389,117.48	2,267,744.68	8831.61	BOM
624	1,389,140.53	2,267,740.65	8830.44	BOM
625	1,389,140.19	2,267,738.68	8830.44	BOM
626	1,389,117.14	2,267,742.71	8831.61	BOM
627	1,389,110.24	2,267,743.92	8830.61	BOM
628	1,389,080.57	2,267,746.06	8833.61	TOB
629	1,389,079.76	2,267,747.22	8833.61	TOB
630	1,389,080.79	2,267,753.13	8833.61	TOB
631	1,389,081.95	2,267,753.94	8833.61	TOB
632	1,389,112.90	2,267,747.51	8832.61	WSE
633	1,389,113.12	2,267,748.49	8833.60	TOB
634	1,389,141.78	2,267,747.79	8833.61	TOB
635	1,389,147.68	2,267,739.40	8833.61	TOB
636	1,389,147.33	2,267,737.43	8833.61	TOB
637	1,389,138.76	2,267,731.53	8833.61	TOB
638	1,389,111.74	2,267,740.61	8833.60	TOB
639	1,389,111.87	2,267,741.60	8832.61	WSE



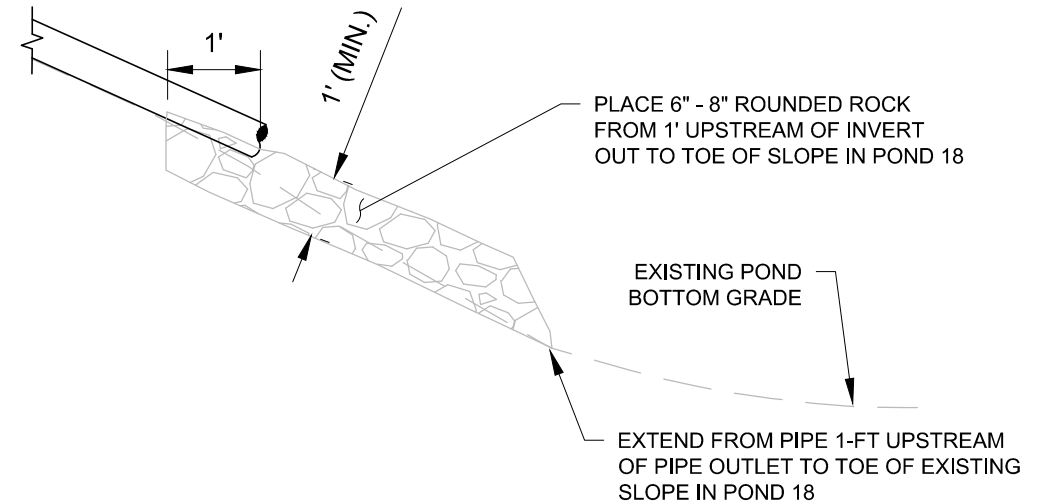
IF THIS LINE IS NOT EQUAL TO ONE INCH ADJUST SCALES ACCORDINGLY

REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN	DWW	<div></div> <div>10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200</div>	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13	
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED	KF				SCALE: 1" = 10'	
					CHECKED	CBF		AERATION CHANNEL PLAN		SHEET: 6 OF 25	
					REVIEWED	STA				PROJ No: SA11161315	H6

Plot Date: 12/24/13 - 1:48pm, Plotted by: kelly.leaney
Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set\, Drawing Name: Aeration Channel plan.dwg



PROFILE OF 18" PIPE FROM FLOW DIVERSION BOX TO POND 18



OUTFALL DETAIL

LEGEND

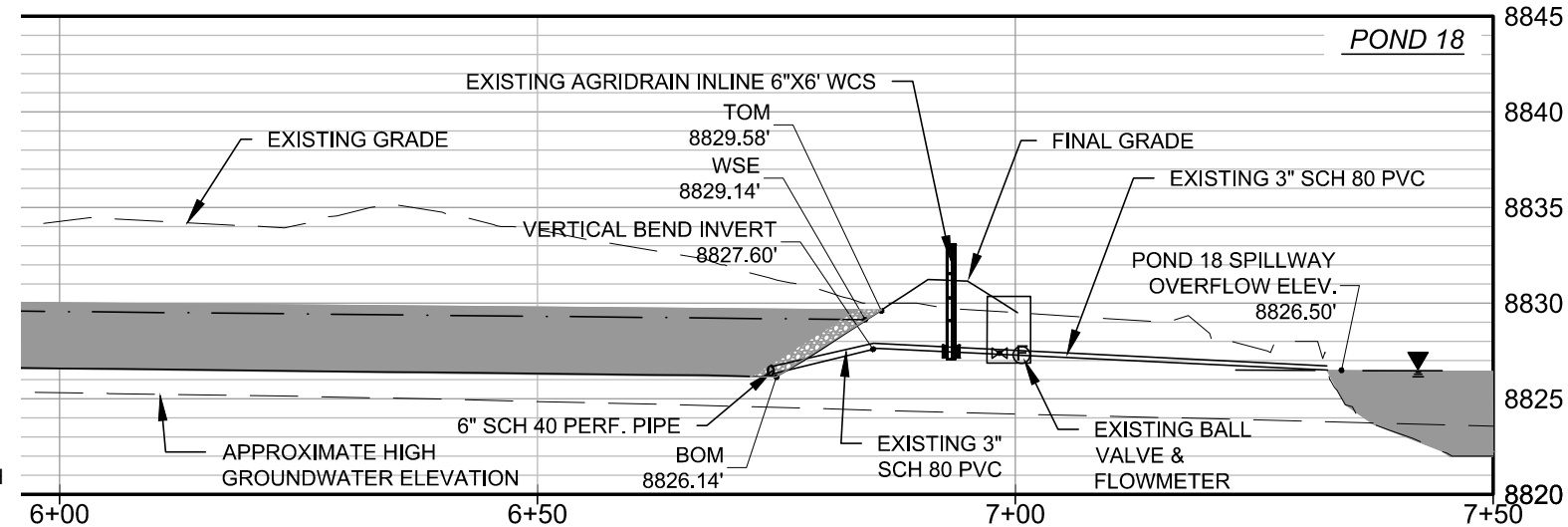
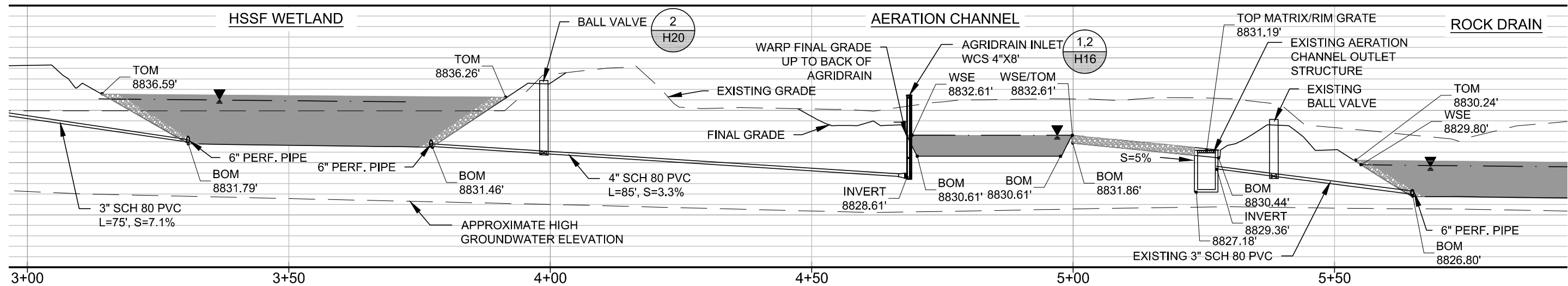
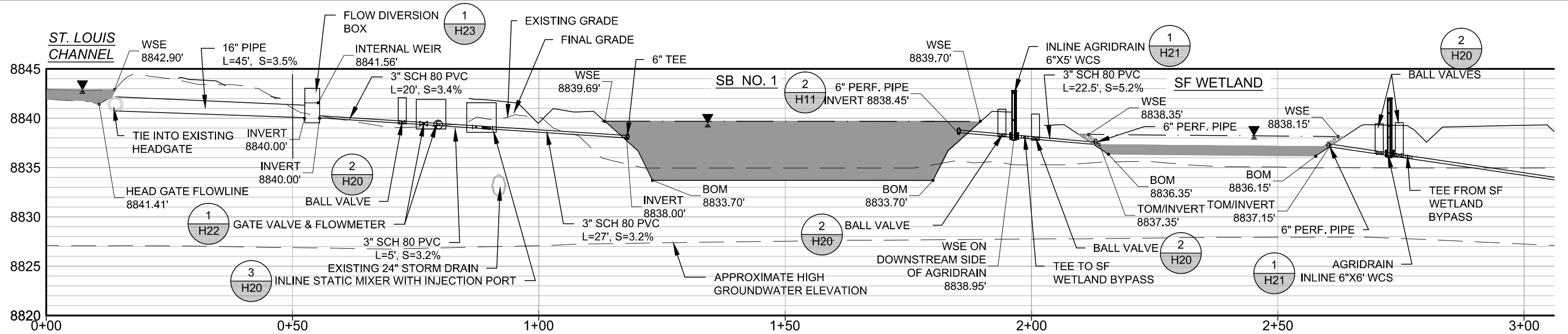


NOTES:

- SEE SHEET H9 - HWTT HYDRAULIC PROFILE FOR ELEVATIONS OF PIPES, INLET STRUCTURES, AND OUTLET STRUCTURES.
- PROVIDE 8 CY OF 6"-8" ROUNDED ROCK TOTAL TO PLACE AS OUTLET PROTECTION AND DISTRIBUTE TO EACH OUTFALL PIPE INTO POND 18.
- FOR EXISTING PIPES, SEE SHEET G7 - PIPING DEMOLITION PLAN.
- SEE DETAIL 2, SHEET H21 FOR TRENCH DETAIL.
- PROFILE VERTICAL EXAGGERATION IS 2.

REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN_____MGC	 10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13		
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED_____KF				SCALE: AS SHOWN		
							HWTT OUTFALL PLAN		SHEET: 8 OF 25		
					CHECKED_____CBF				PROJ No:		H8
					REVIEWED_____STA				SA11161315		
DATUM UTM ZONE 125 FEET, NAD 83											

Plot Date: 12/24/13 - 1:49pm, Plotted by: kelly.leaney
Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set, Drawing Name: Hydraulics Profiles.dwg



NOTES:

1. PIPE LENGTHS AND SLOPES ARE APPROXIMATE. PIPES SHOULD BE FIELD FIT TO MATCH THE PROPOSED GRADES AND ALIGNMENT. MINIMUM PIPE SLOPE = 1.0%.
2. SEE SHEET H8 - HWTT OUTFALL PLAN FOR OUTLET EROSION PROTECTION.
3. SEE TRENCH DETAIL 2, SHEET H21 FOR TRENCH REQUIREMENTS AND FOR INSULATION REQUIREMENTS FOR PIPE BURIED <6-FT DEEP.
4. PROFILE VERTICAL EXAGGERATION IS 2:1.

REFERENCES:

PLANS

DATUM

UTM ZONE 12S
FEET, NAD 83

NO.	REVISION	DATE	APRVD
1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA

DRAWN	KF
DESIGNED	KF
CHECKED	CBF
REVIEWED	STA

amec
10670 White Rock Road, Suite 100
Rancho Cordova, CA 95670
(916) 636-3200

RICO - ARGENTINE MINE SITE
WETLAND DEMONSTRATION

HWTT HYDRAULIC PROFILE

DATE: 12/24/13

SCALE: 1" = 20'

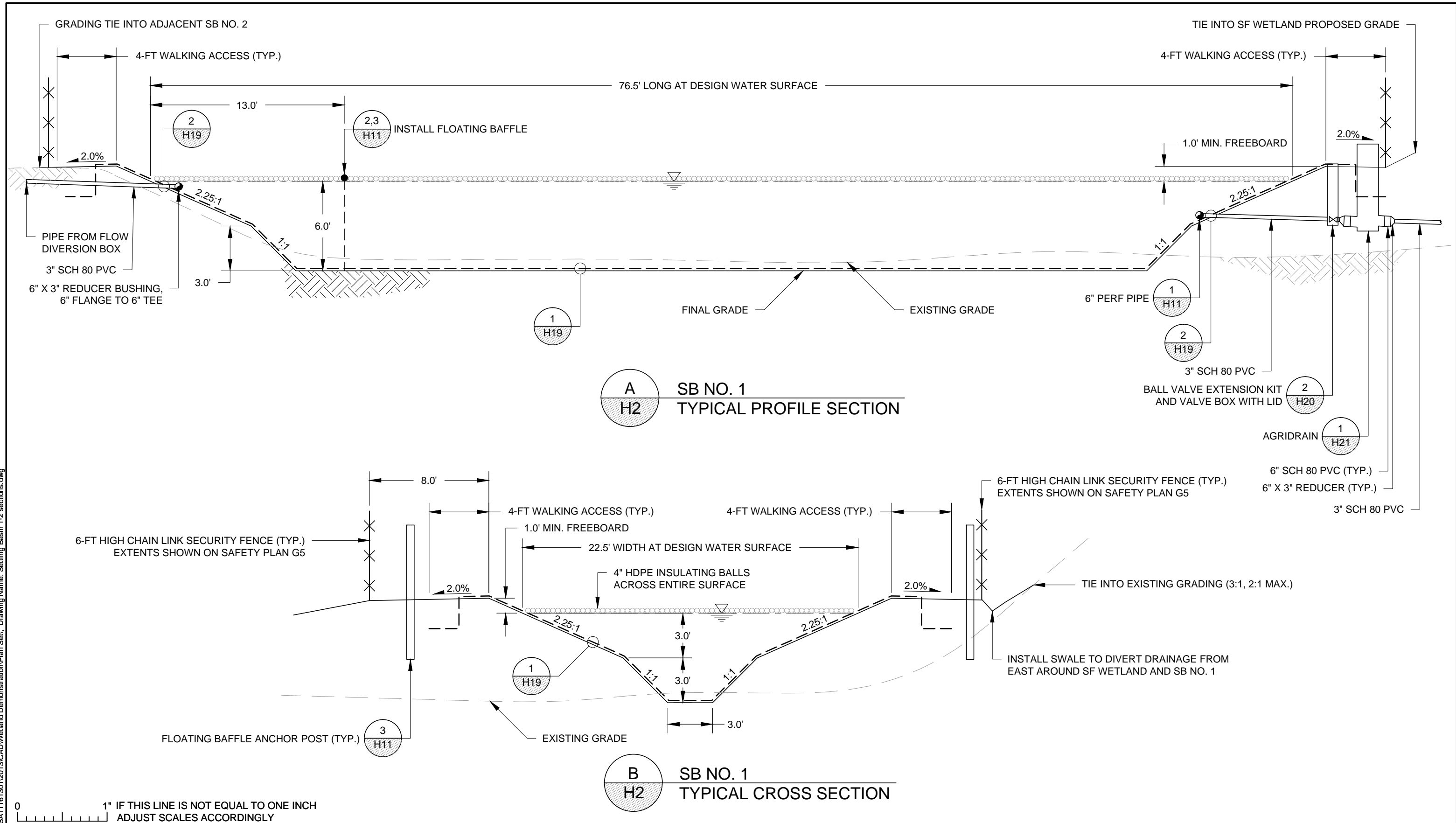
SHEET: 9 OF 25

PROJ No:

SA11161315

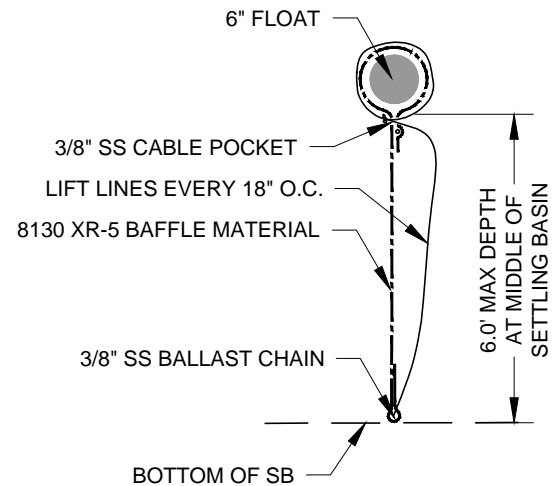
H9

Plot Date: 12/24/13 - 1:49pm, Plotted by: kelly.leaney
Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set, Drawing Name: Settling Basin 1-2 sections.dwg



REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN	BDP	 10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION	DATE: 12/24/13	
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED	KF			SCALE: NTS	
					CHECKED	CBF			SHEET: 10 OF 25	
					REVIEWED	STA			PROJ No: SA11161315	
DATUM UTM ZONE 125 FEET, NAD 83								SB NO. 1 TYPICAL SECTIONS	H10	

Plot Date: 12/24/13 - 1:49pm, Plotted by: kelly.leaney
Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set, Drawing Name: Settling Basin 1-2 details.dwg



NOTE:
1. INSTALLATION OF FLOATING BAFFLE SHALL BE IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS AND RECOMMENDATIONS.

3 SB FLOATING BAFFLE
H10 V2, V5 SECTION VIEW

LEGEND
--- PERF PIPE
--- CONTINUOUS (NON-PERF PVC)
● TRANSITION TO/FROM PERFORATED PIPE TO NON-PERF PIPE
▼ REDUCER BUSHING

CLEANOUT. 3" SCH 80 PVC NON-PERF. PIPE. FIELD FIT TO FOLLOW SIDE SLOPE OF BASIN IN ORDER TO PROVIDE ADDITIONAL SUPPORT WITH 1/8" CABLE WITH PIPE CLAMP CONNECTING TO T-POST OUTSIDE EXTENTS OF LINER (TYP.)

3" SCH 80 PVC END CAP (NOT GLUED) (TYP.)

45° BEND (TYP.)

6"x3" REDUCER BUSHING

6" SCH 40 PVC, NON-PERF.

3" SCH 80 PVC PIPE

6"x6"x6" TEE

6" SCH 40 PVC

22.5° BEND (TYP.)

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

5.0'

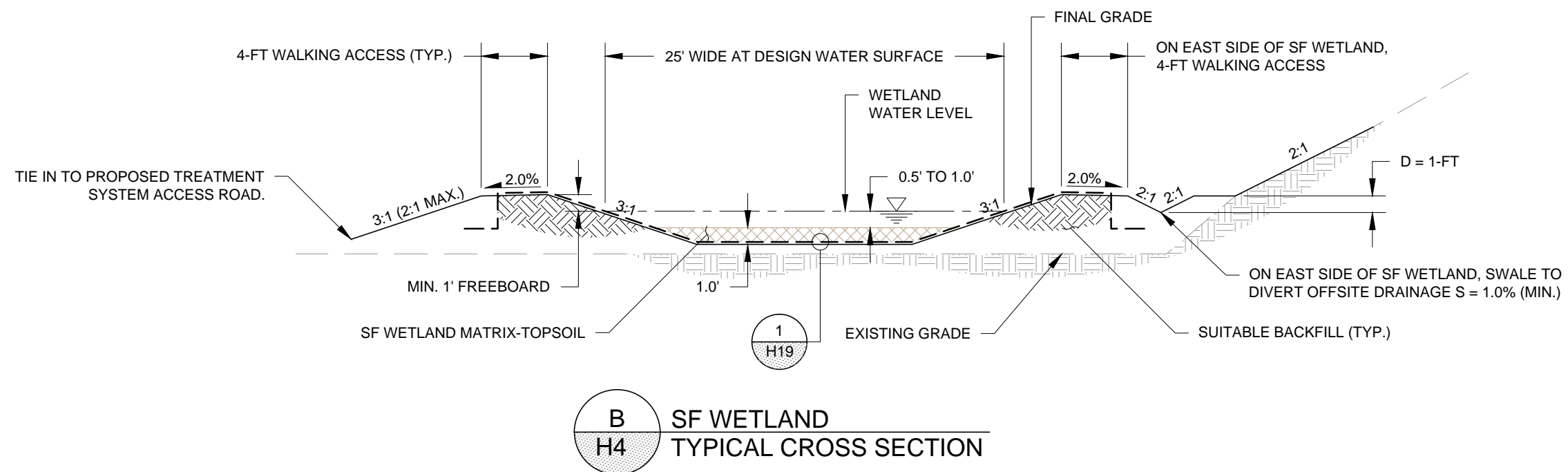
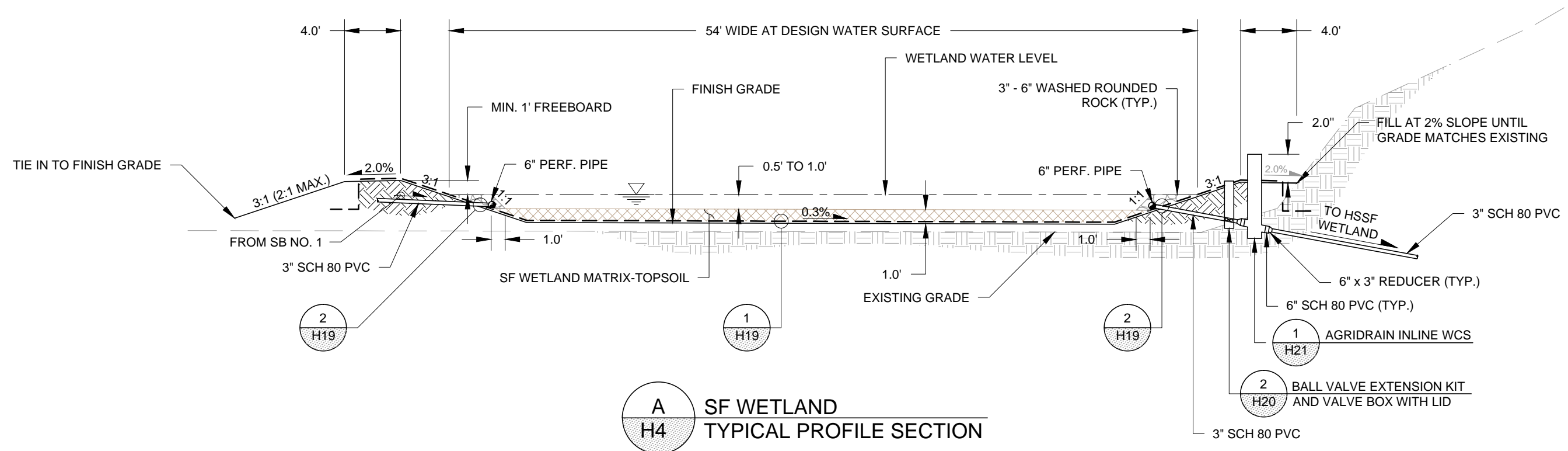
5.0'

5.0'

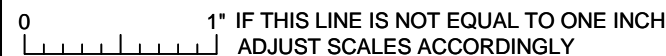
5.0'

5.0'

5.0'



NOTE:
SF WETLAND TO BE PLANTED WITH SEDGES PURCHASED FROM
A PLANT NURSERY. SEDGES TO BE PLANTED 2.0 FT O.C. SEE
SPECIFICATIONS FOR PLANTING DETAILS.



REFERENCES: PLANS DATUM UTM ZONE 125 FEET, NAD 83	NO.	REVISION	DATE	APRVD	DRAWN_____BDP	 10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13	
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED_____KF				SCALE: NTS	
					CHECKED_____CBF				SHEET: 12 OF 25	
					REVIEWED_____STA		SF WETLAND SECTIONS		PROJ No:	H12
									SA11161315	



REFERENCES:
PLANS

DATUM
UTM ZONE 12S
FEET, NAD 83

NO.	REVISION	DATE	APRVD	DRAWN_____BDP
1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED_____ARC
				CHECKED_____CBF
				REVIEWED_____STA

amec 

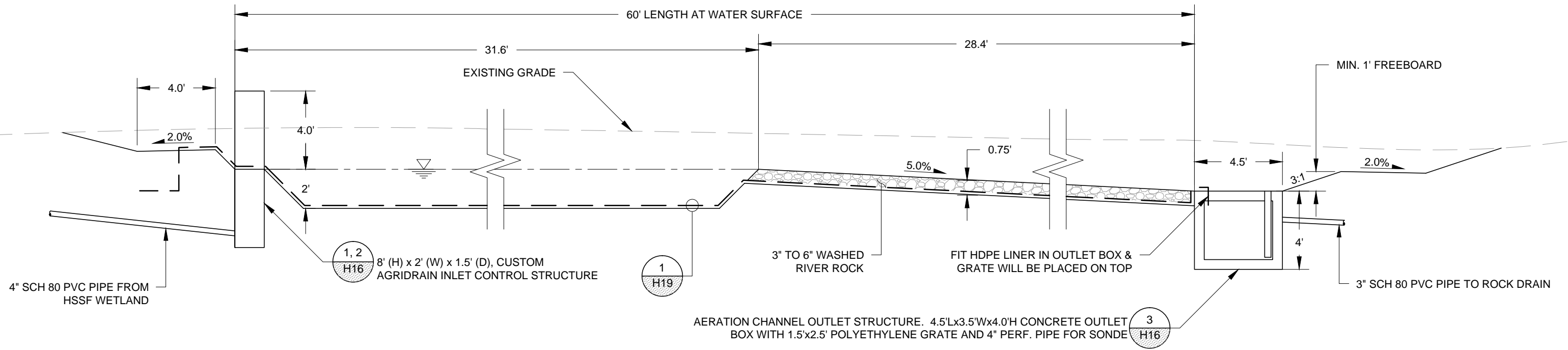
**10670 White Rock Road, Suite 100
Rancho Cordova, CA 95670
(916) 636-3200**

RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION

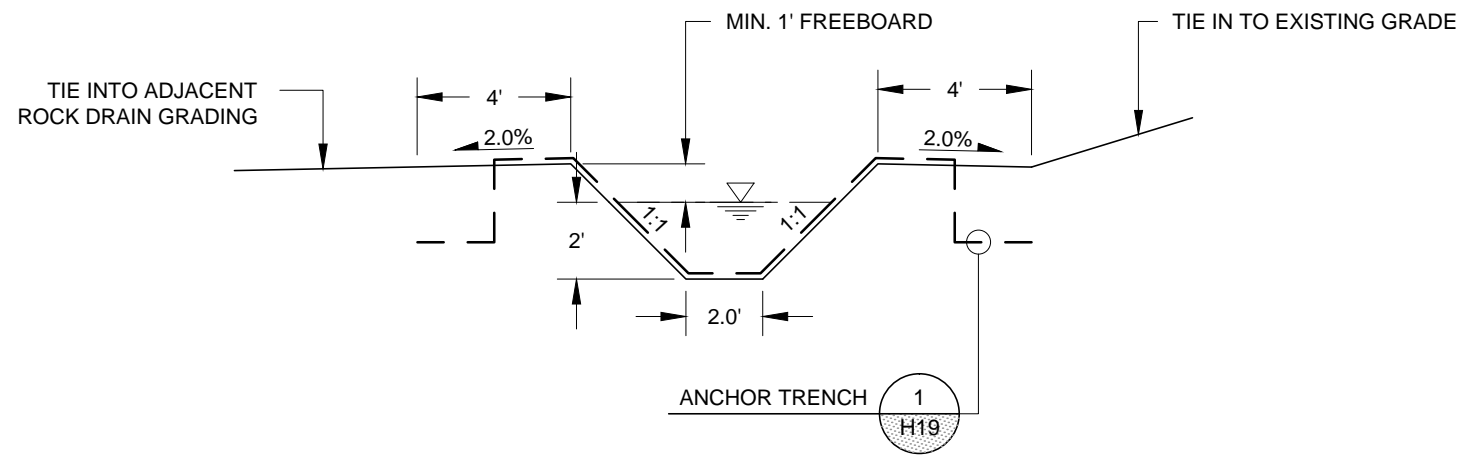
HSSF WETLAND DETAILS

DATE: 12/24/13	
SCALE: NTS	
SHEET: 14 OF 25	
PROJ No: SA11161315	H14

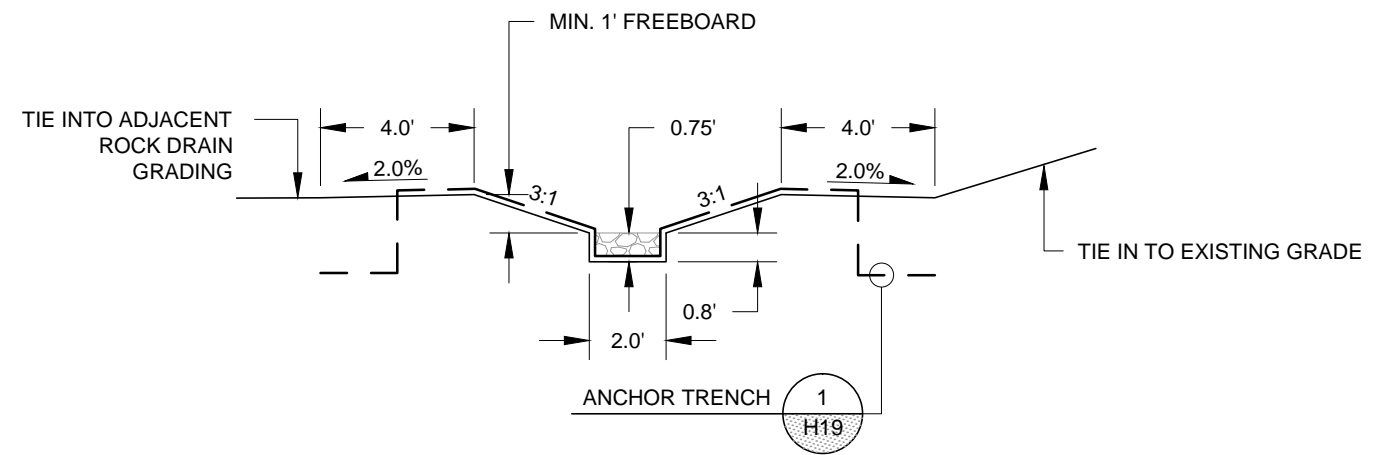
Plot Date: 12/24/13 - 1:50pm, Plotted by: kelly.learney
Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set, Drawing Name: Aeration Channel sections.dwg



A
H6
AERATION CHANNEL
TYPICAL PROFILE SECTION



B
H6
AERATION CHANNEL
TYPICAL CROSS SECTION

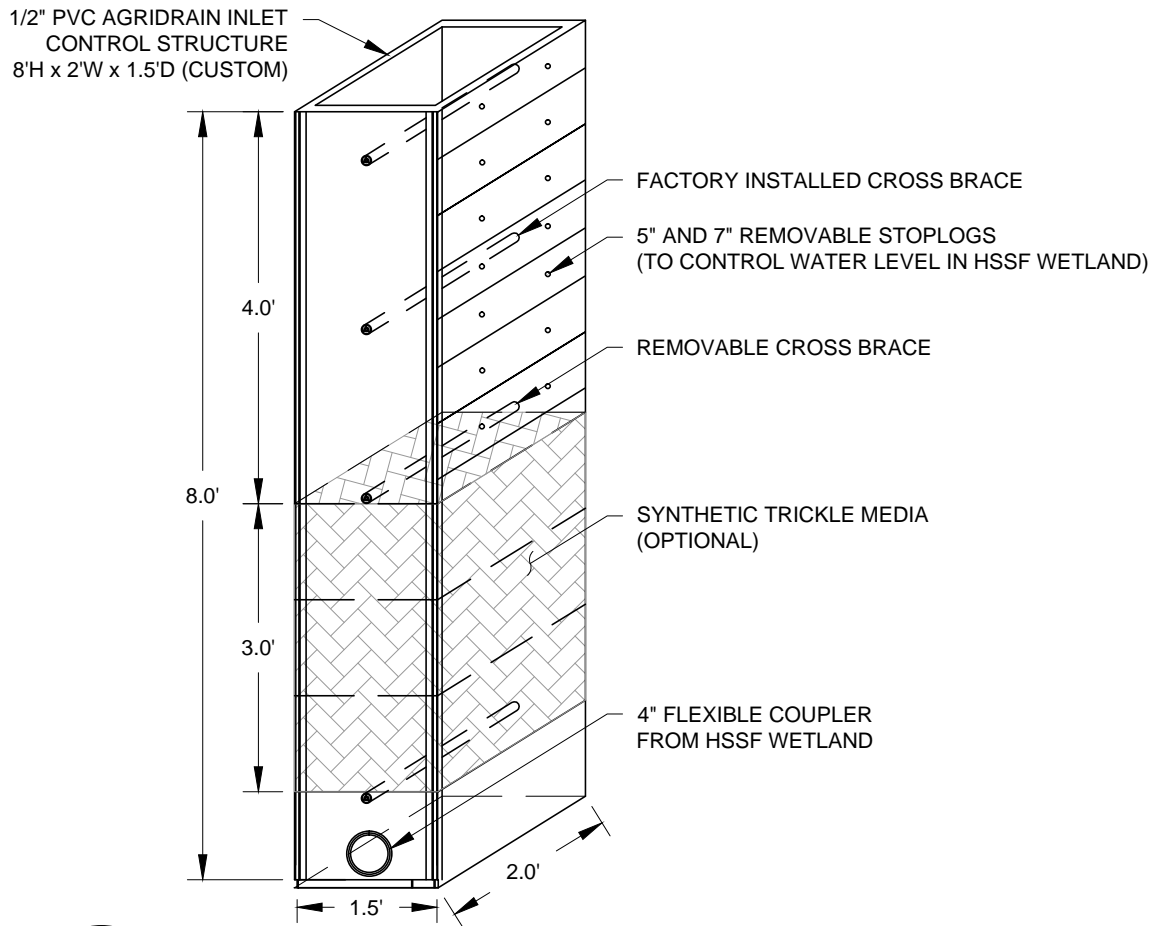


C
H6
AERATION CHANNEL
TYPICAL CROSS SECTION

0 1" IF THIS LINE IS NOT EQUAL TO ONE INCH
ADJUST SCALES ACCORDINGLY

REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN_____BDP	 10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13	
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED_____KF				SCALE: NTS	
					CHECKED_____CBF		SHEET: 15 OF 25			
					REVIEWED_____STA		AERATION CHANNEL SECTIONS		PROJ No:	
	DATUM UTM ZONE 125 FEET, NAD 83		SA11161315						H15	

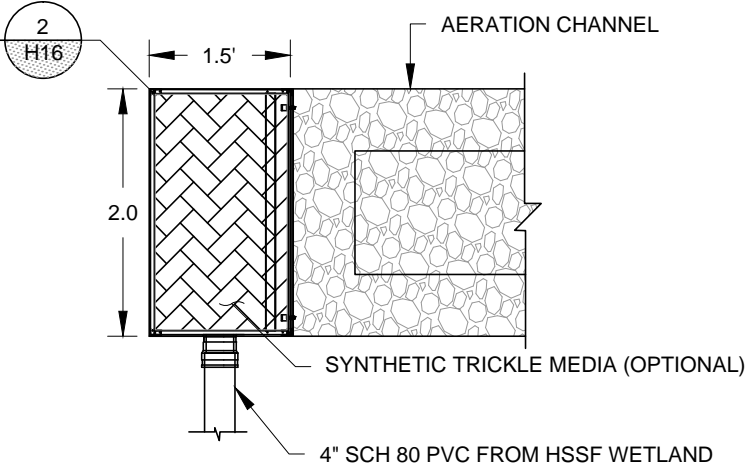
Plot Date: 12/24/13 - 1:50pm, Plotted by: kelly.learney
Drawing Path: P:\Project\RICO - SA111613012013\CAD\Wetland Demonstration\Plan Set, Drawing Name: Aeration Channel details.dwg



2
H7,H9,H15

AERATION CHANNEL INLET STRUCTURE
ISOMETRIC VIEW

1/2" PVC AGRIDRAIN INLET CONTROL STRUCTURE
8'H X 2'W X 1.5'D WITH 3" FLEXIBLE PIPE COUPLER
(CUSTOM ORDER FROM AGRIDRAIN)



1
H7,H9,H15

AERATION CHANNEL INLET STRUCTURE
PLAN VIEW

IF THIS LINE IS NOT EQUAL TO
1" ONE INCH ADJUST SCALES
ACCORDINGLY

0 1"

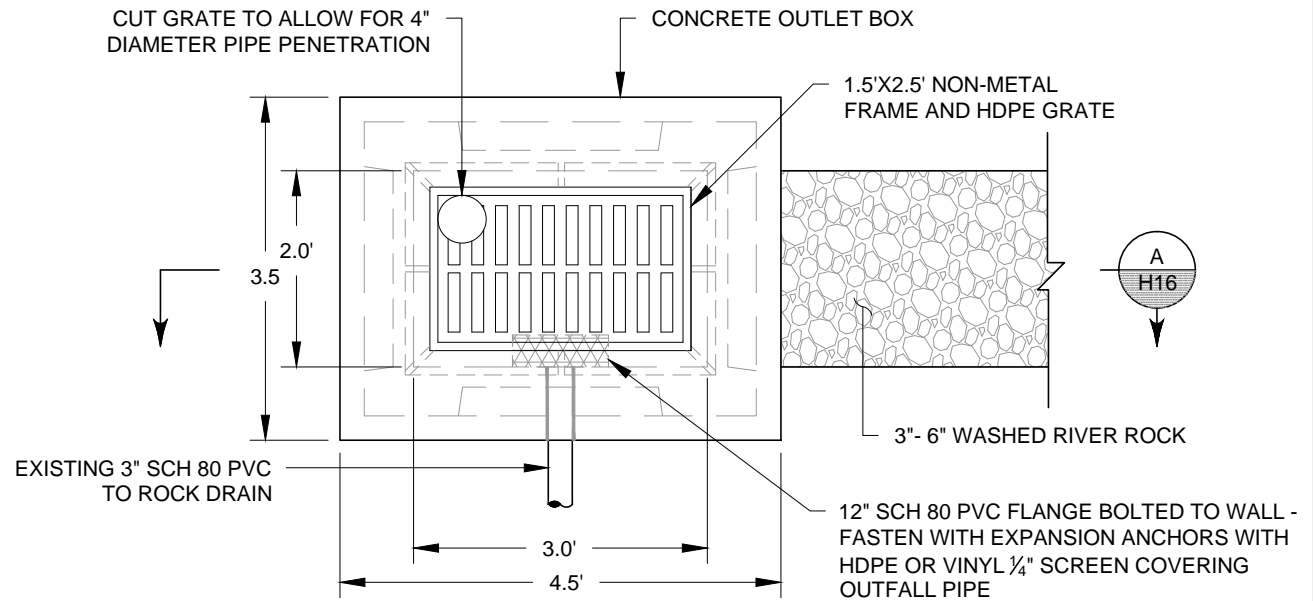
REFERENCES:
PLANS

DATUM
UTM ZONE 125
FEET, NAD 83

NO.	REVISION	DATE	APRVD
1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA

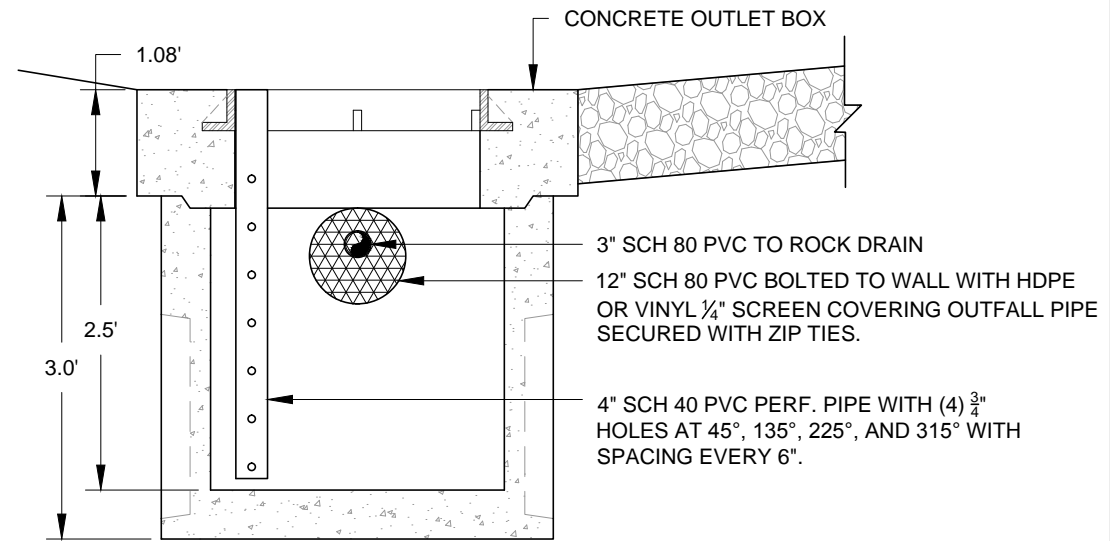
DRAWN	BDP
DESIGNED	ARC
CHECKED	CBF
REVIEWED	STA

amec
10670 White Rock Road, Suite 100
Rancho Cordova, CA 95670
(916) 636-3200



3
H6,H9,H15

AERATION CHANNEL OUTLET STRUCTURE
PLAN VIEW



A

AERATION CHANNEL OUTLET STRUCTURE
PROFILE VIEW

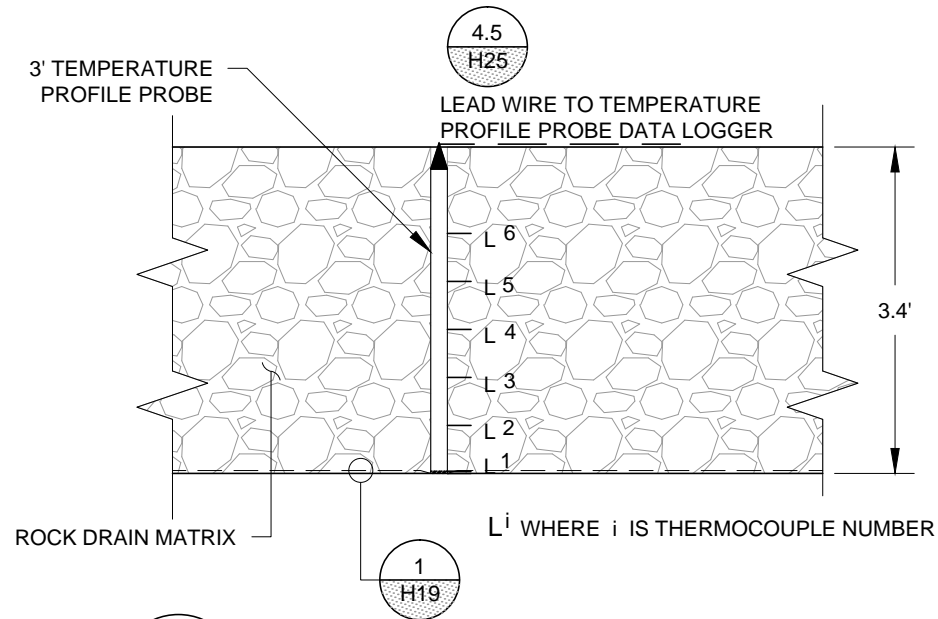
NOTE:
AERATION CANNEL OUTLET CONCRETE STRUCTURE AND HDPE GRATE IS
EXISTING. 4" SCH 40 PVC PERF. PIPE TO HOUSE SONDE IS NOT EXISTING.

RICO - ARGENTINE MINE SITE
WETLAND DEMONSTRATION

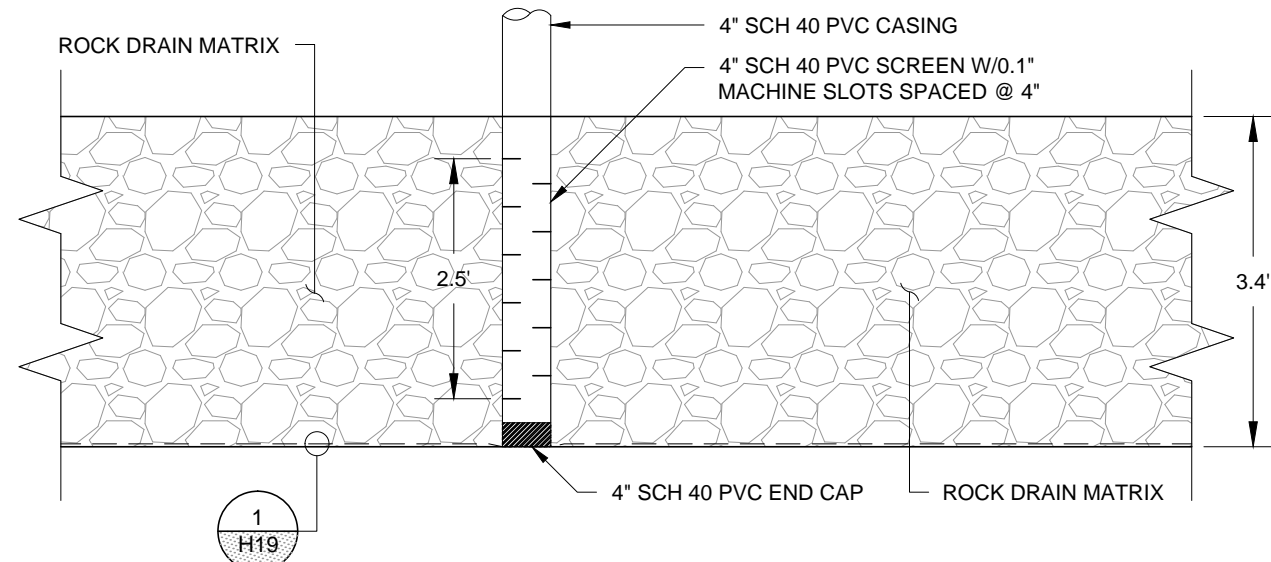
AERATION CHANNEL DETAILS

DATE: 12/24/13
SCALE: NTS
SHEET: 16 OF 25
PROJ No: SA11161315
H16

Plot Date: 12/24/13 - 1:50pm, Plotted by: kelly.learney
Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set, Drawing Name: Rock Drain details.dwg



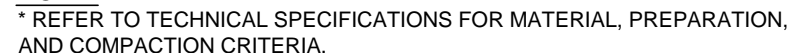
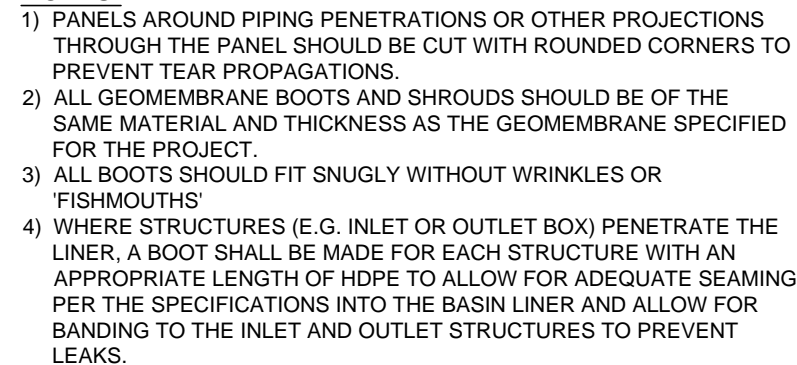
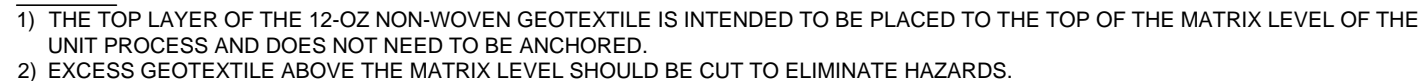
1
G4,H6,H7
ROCK DRAIN TEMPERATURE PROFILE
PROBE INSTALLATION DETAIL



2
G4,H6,H7
ROCK DRAIN MONITORING PORT
INSTALLATION DETAIL

0 1" IF THIS LINE IS NOT EQUAL TO ONE INCH
ADJUST SCALES ACCORDINGLY

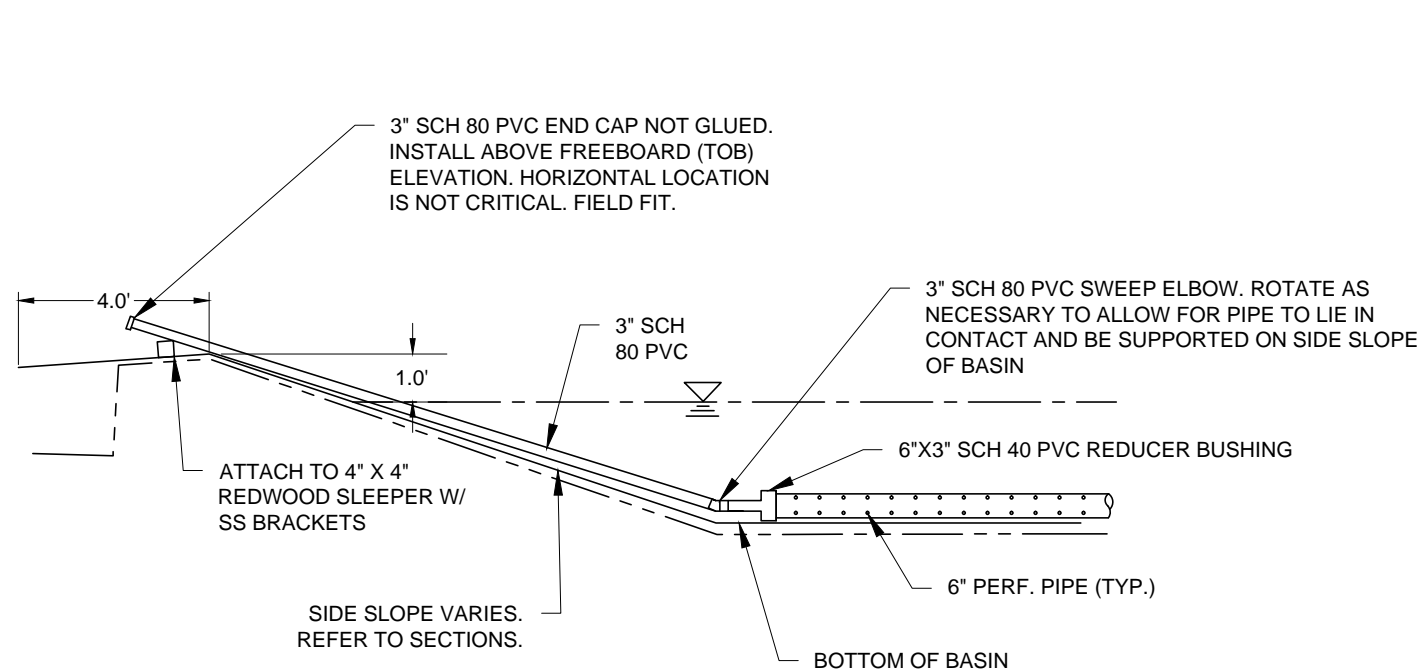
REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN_____BDP	 10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13			
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED_____ARC				SCALE: NTS			
								ROCK DRAIN DETAILS		SHEET: 18 OF 25		
										PROJ No:		H18
										SA11161315		
DATUM UTM ZONE 125 FEET, NAD 83					CHECKED_____CBF							
					REVIEWED_____STA							



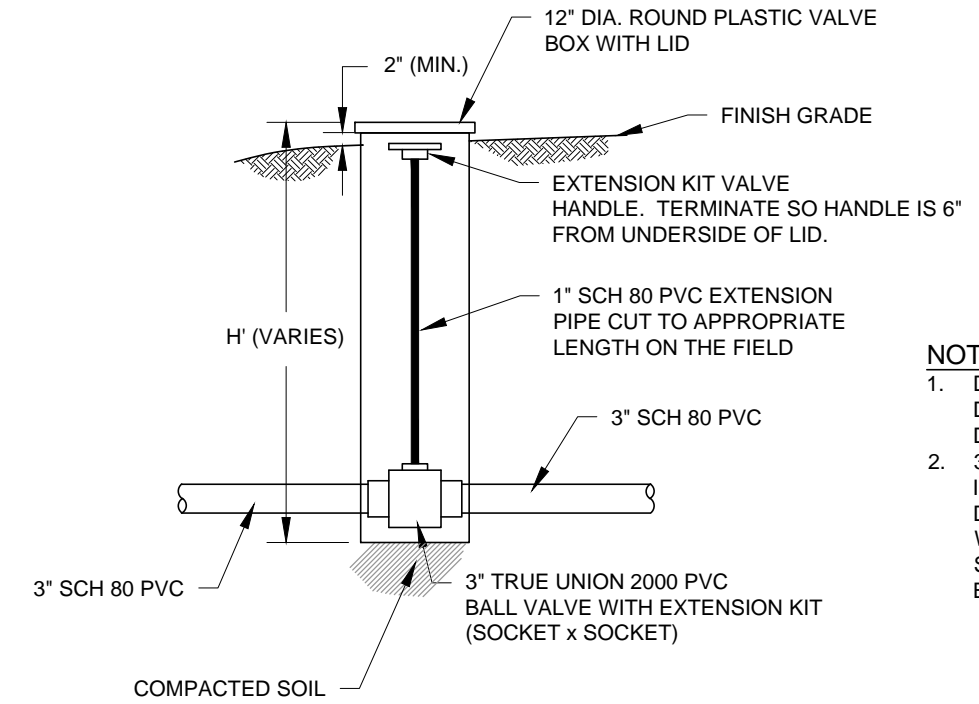
REFERENCES: PLANS DATUM UTM ZONE 125 FEET, NAD 83	NO.	REVISION	DATE	APRVD	DRAWN _____ MGC	 10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13	
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED _____ KF				SCALE: NTS	
					CHECKED _____ CBF		SECTIONS AND DETAILS SHEET		SHEET: 19 OF 25	
					REVIEWED _____ STA				PROJ No: SA11161315	
									H19	

Plot Date: 12/24/13 - 1:50pm, Plotted by: Kelly.fearney
Drawing Path: P:\Project\RICO - SA11161\301\2013\CAD\Wetland Demonstration\Plan Set\, Drawing Name: General Sections.dwg

Plot Date: 12/24/13 - 1:50pm, Plotted by: kelly.leaney
Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set\ Drawing Name: General Detail Sheet.dwg

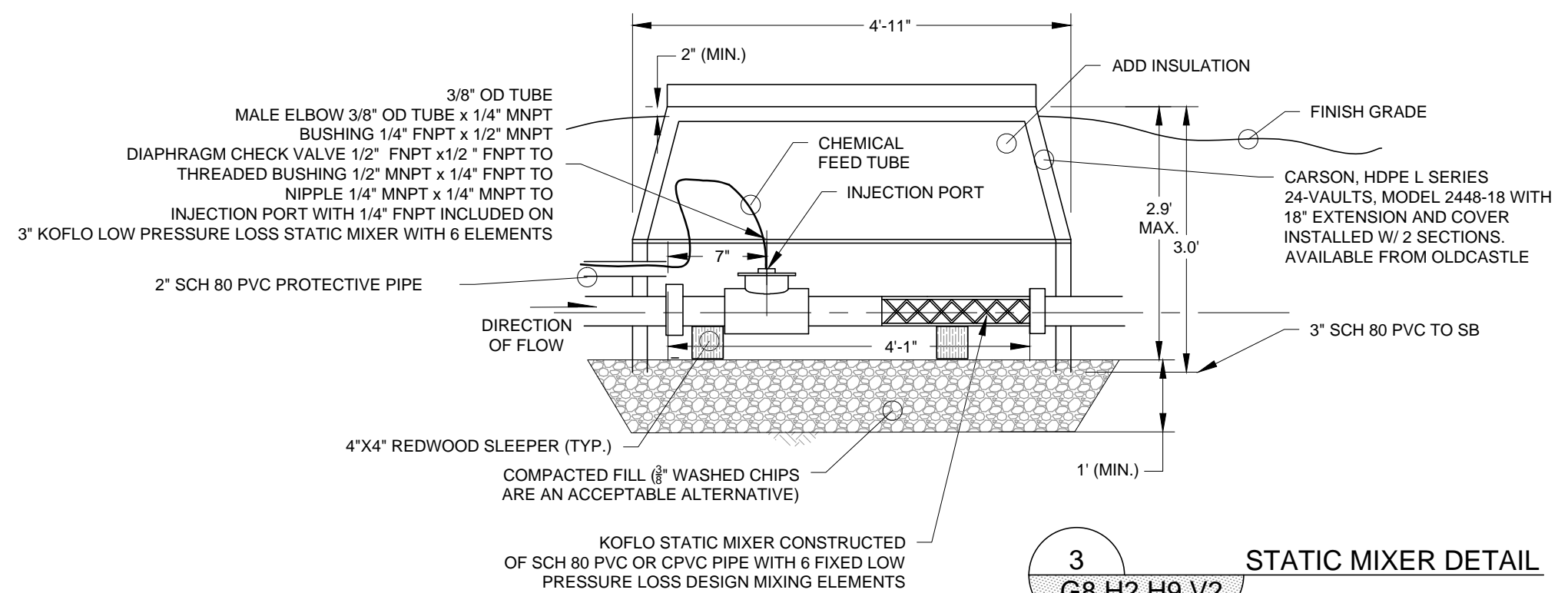


1
H3,H4,H5,H6,H7
CLEANOUT
TYPICAL DETAIL



- NOTES:**
1. DRILL BALL VALVE WITH HOLE IN DIRECTION OF FLOW SO IT DRAINS WHEN CLOSED.
 2. 3" SCH 80 PVC AND 3" BALL VALVE IS TYPICAL, EXCEPT FOR DOWNSTREAM OF THE HSSF WETLAND WHERE BALL VALVE SHALL BE 4" SCH 80 PVC AND 4" BALL VALVE

2
G8,H2,H3,H4,H5,H6,H9,H10,H12,V2,V4,V15
BALL VALVE IN VALVE BOX

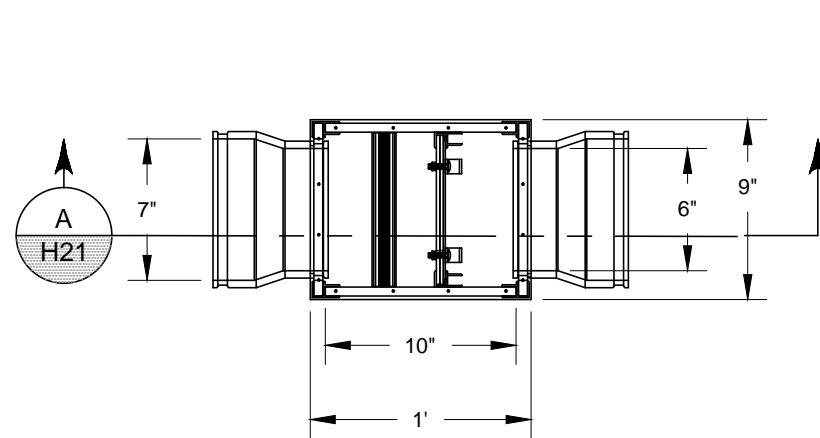


3
G8,H2,H9,V2
STATIC MIXER DETAIL

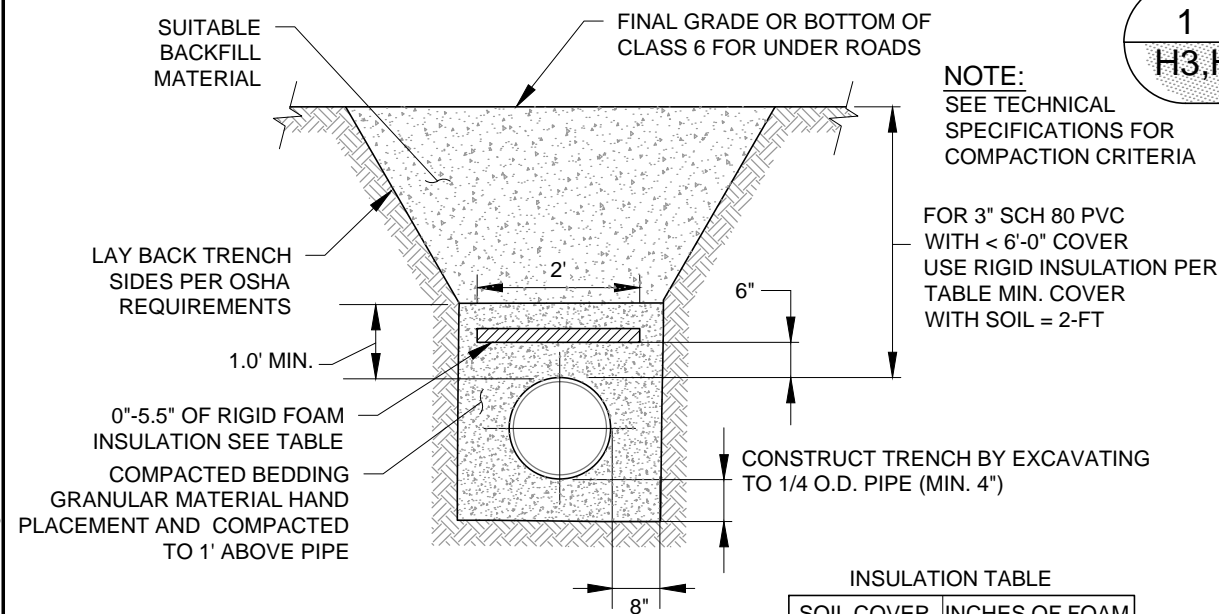
0 1" IF THIS LINE IS NOT EQUAL TO ONE INCH
ADJUST SCALES ACCORDINGLY

REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN	MGC	 10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13	
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED	KF				SCALE: NTS	
					CHECKED	CBF				SHEET: 20 OF 25	
					REVIEWED	STA		SECTIONS AND DETAILS SHEET		PROJ No:	H20
										SA11161315	

Plot Date: 12/24/13 - 1:51pm, Plotted by: kelly.leaney
Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set, Drawing Name: General Detail Sheet.dwg



PLAN VIEW
1 AGRIDRAIN INLINE WCS
H3,H4,H9,H10,H12,V2,V3,V4,V5,V8

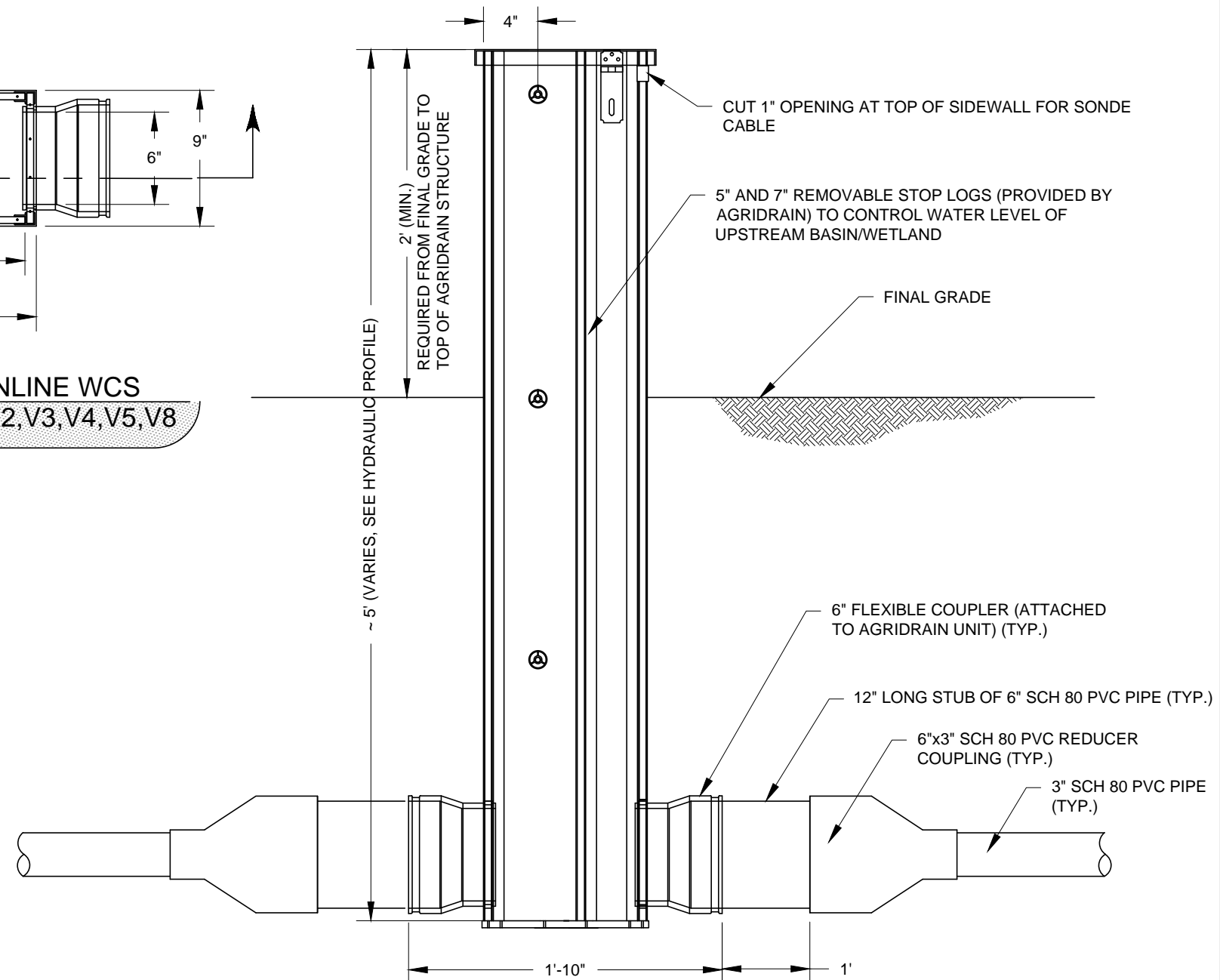


TRENCH SHAPE DETAIL

2 TRENCH DETAIL

INSULATION TABLE	
SOIL COVER	INCHES OF FOAM
2-FT	5.5"
3-FT	4.0"
4-FT	2.5"
5-FT	1.5"
6-FT	0"

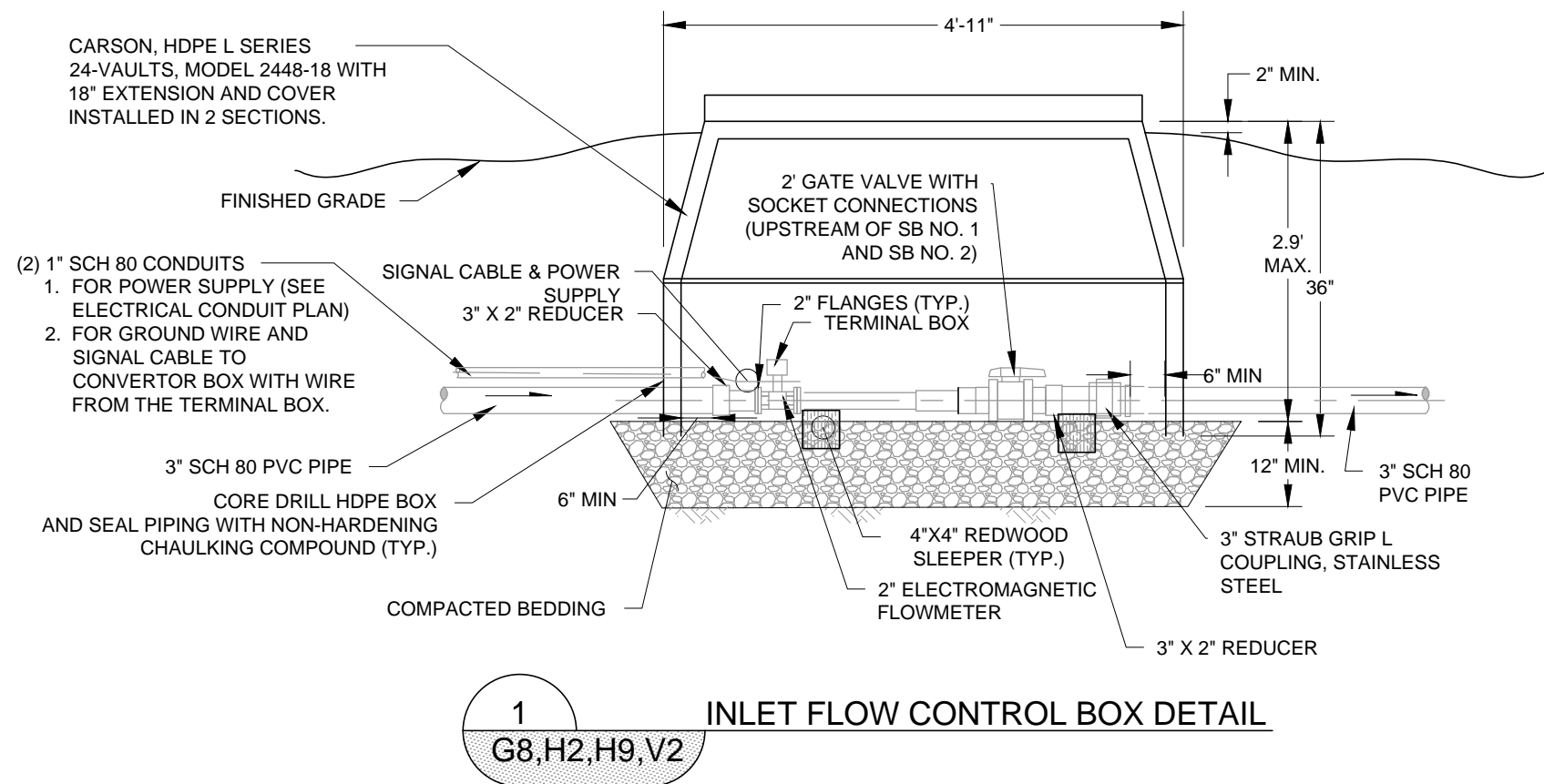
- NOTE:
SEE TECHNICAL SPECIFICATIONS FOR COMPACTION CRITERIA
- FOR 3" SCH 80 PVC WITH < 6'-0" COVER
USE RIGID INSULATION PER TABLE MIN. COVER WITH SOIL = 2-FT
- NOTES:
THE AGRIDRAIN INLINE WATER LEVEL CONTROL STRUCTURE (WCS) IS TO BE INSTALLED IN (6) SIX LOCATIONS:
1. DOWNSTREAM OF THE SB NO. 1 TO CONTROL WATER LEVEL IN SB NO. 1
 2. DOWNSTREAM OF THE SF WETLAND TO CONTROL WATER LEVEL IN THE SF WETLAND
 3. DOWNSTREAM OF THE ROCK DRAIN TO CONTROL WATER LEVEL IN THE ROCK DRAIN
 4. DOWNSTREAM OF THE SB NO. 2 TO CONTROL WATER LEVEL IN SB NO. 2
 5. DOWNSTREAM OF THE VF BIOTREATMENT CELL TO CONTROL WATER LEVEL IN THE VF BIOREACTOR
 6. DOWNSTREAM OF THE AERATION CASCADE



A AGRIDRAIN INLINE WCS
SECTION VIEW

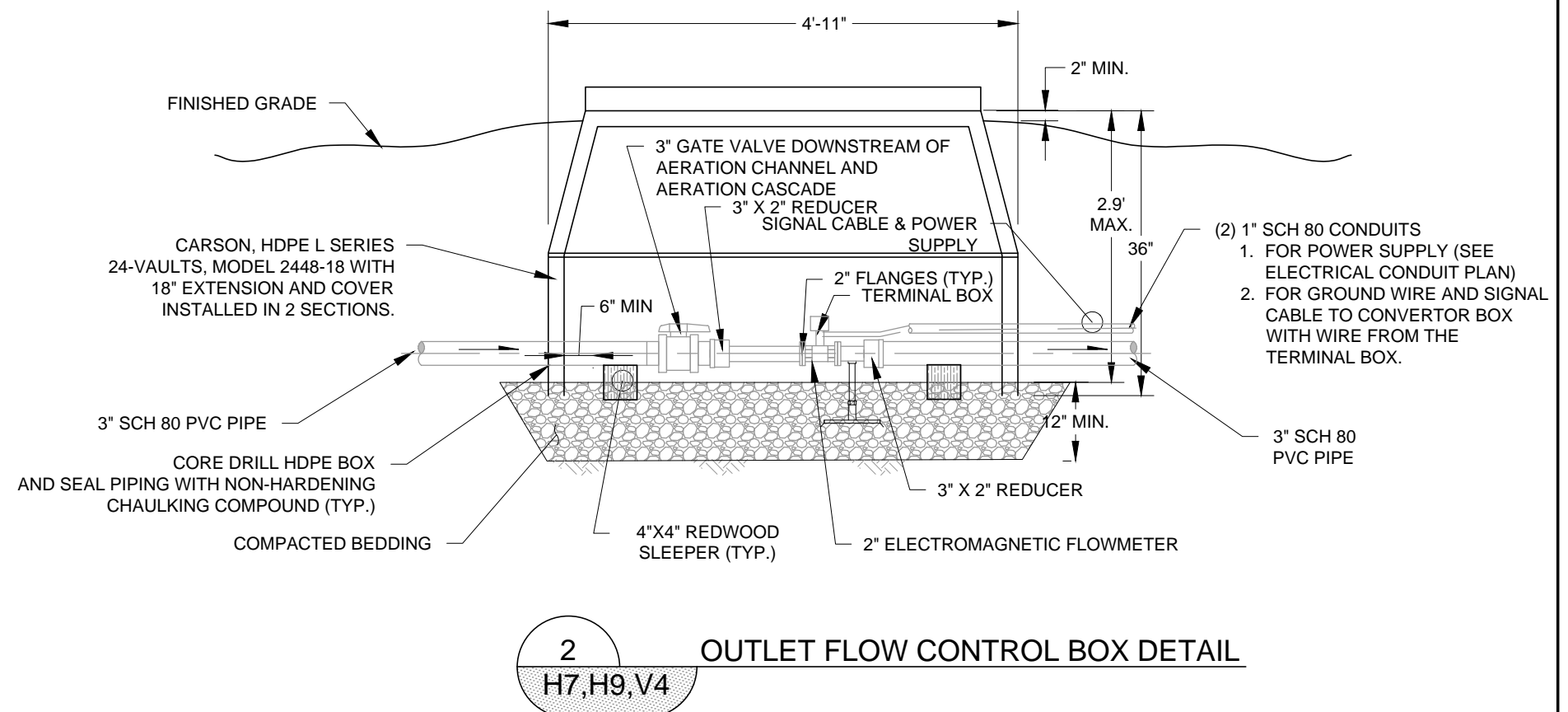
0 1" IF THIS LINE IS NOT EQUAL TO ONE INCH
ADJUST SCALES ACCORDINGLY

REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN_____MGC	 10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13	
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED_____ARC				SCALE: NTS	
					CHECKED_____CBF		SECTIONS AND DETAILS SHEET		SHEET: 21 OF 25	
					REVIEWED_____STA				PROJ No:	
									SA11161315	
DATUM UTM ZONE 125 FEET, NAD 83										

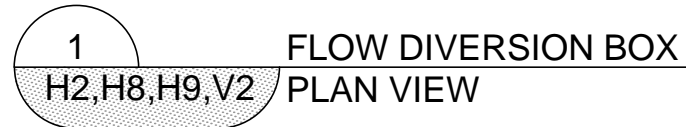


- NOTES:

1. STRUCTURES DEEPER THAN 3-FT ARE CONSIDERED CONFINED SPACE. PROVIDE COMPACTED BEDDING TO FILL BOTTOM SO THAT HEIGHT FROM RIM OF LID TO TOP OF BEDDING IS LESS THAN 3-FT.
2. GATE VALVE TO BE INSTALLED WITH INFLUENT FLOWMETERS. BALL VALVE TO BE INSTALLED WITH EFFLUENT FLOWMETERS.
3. THE MINIMUM STRAIGHT PIPE LENGTH REQUIRED UPSTREAM OF THE INFLUENT FLOWMETERS 12-INCHES AND DOWNSTREAM OF THE FLOWMETER IS 10-INCHES.
4. OUTLET FLOW CONTROL BOX DOWNSTREAM OF ROCK DRAIN IS EXISTING.
5. FOR PIPE ELEVATION SEE HYDRAULIC PROFILE.
6. POWER SUPPLY AND SIGNAL CABLE SHALL BE VENDOR SUPPLIED.



REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN_____MGC	 10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13	
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED_____ARC				SCALE: NTS	
					CHECKED_____CBF		SECTIONS AND DETAILS SHEET		SHEET: 22 OF 25	
					REVIEWED_____STA				PROJ No:	
									SA11161315	
DATUM UTM ZONE 125 FEET, NAD 83									H22	

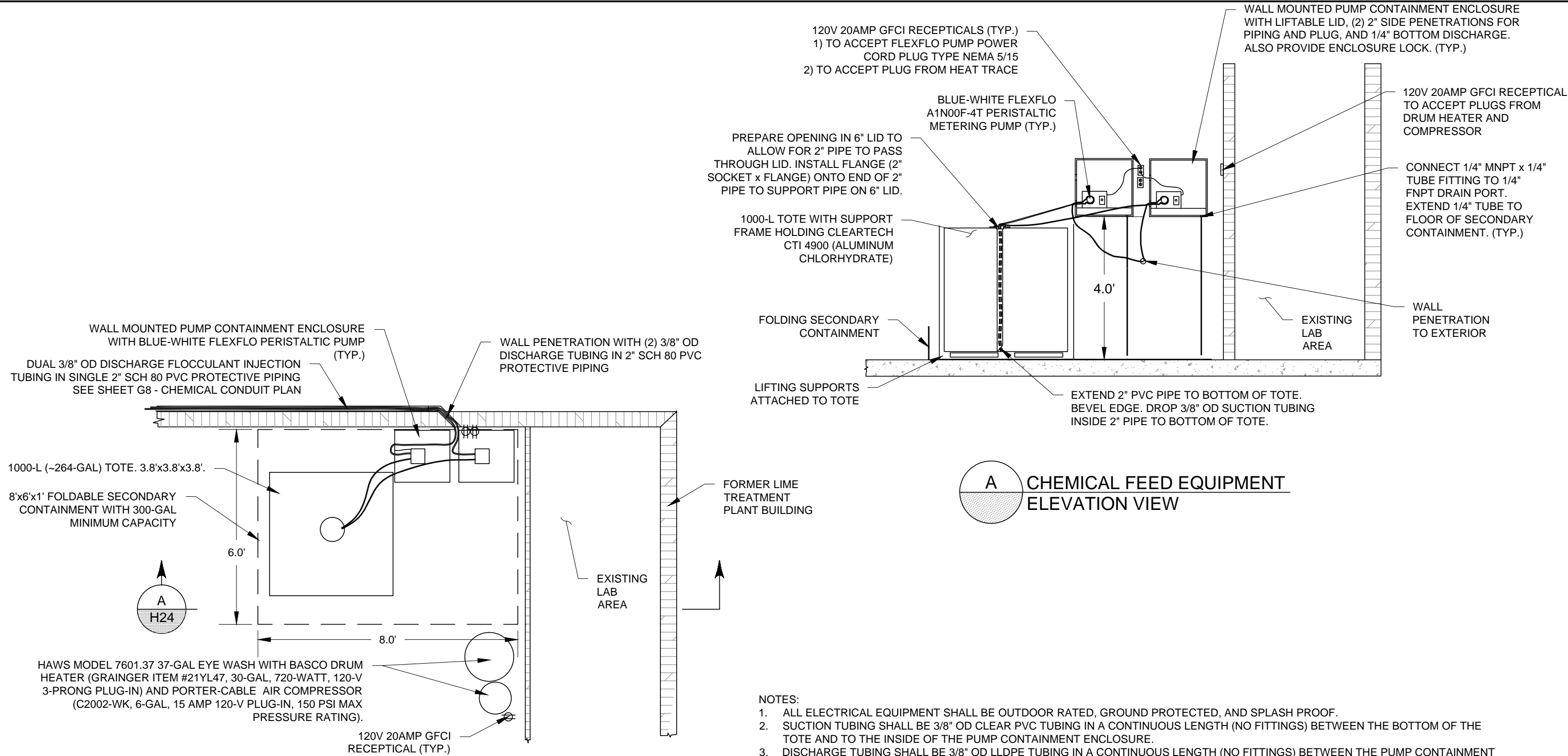


NOTES:

1. ALL INVERTS IN AND OUT ARE 8840.00.
2. CORE DRILL PRECAST BOX AND SEAL PIPING WITH LINK-SEAL MODULAR SEALS (TYP.).

REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN_____MGC	 10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13	
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED_____KF				SCALE: NTS	
					CHECKED_____CBF		SECTIONS AND DETAILS SHEET		SHEET: 23 OF 25	
					REVIEWED_____STA				PROJ No:	
									SA11161315	
DATUM UTM ZONE 125 FEET, NAD 83									H23	

Plot Date: 12/24/13 - 1:51pm, Plotted by: kelly.leaney
Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set, Drawing Name: General Detail Sheet - Revised Floc Bldg.dwg



A CHEMICAL FEED EQUIPMENT
ELEVATION VIEW

1 CHEMICAL FEED EQUIPMENT
G8 PLAN VIEW

NOTES:

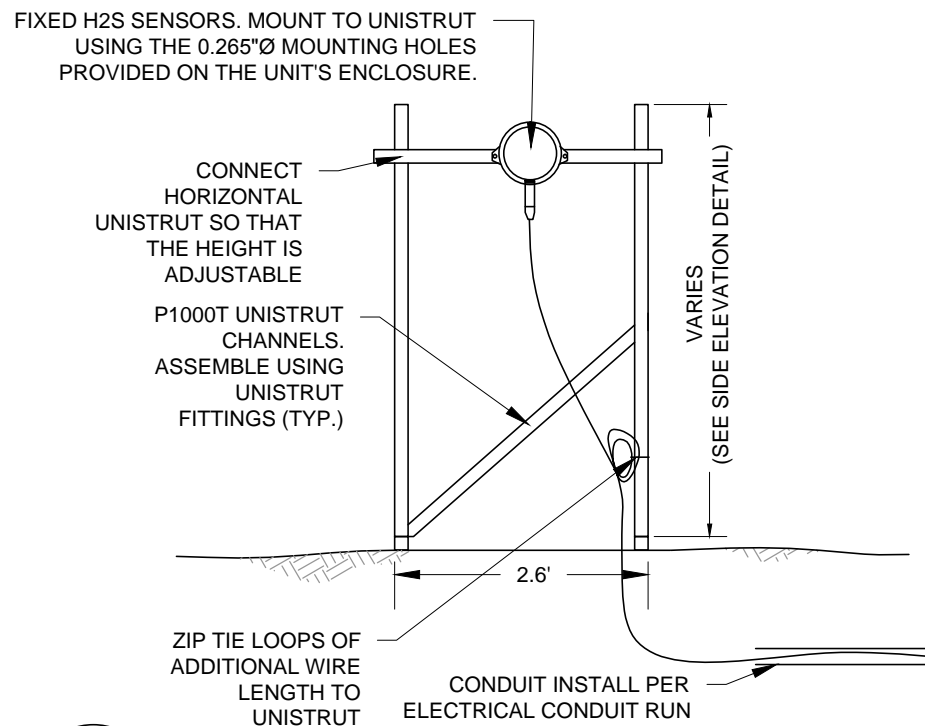
1. ALL ELECTRICAL EQUIPMENT SHALL BE OUTDOOR RATED, GROUND PROTECTED, AND SPLASH PROOF.
2. SUCTION TUBING SHALL BE 3/8" OD CLEAR PVC TUBING IN A CONTINUOUS LENGTH (NO FITTINGS) BETWEEN THE BOTTOM OF THE TOTE AND TO THE INSIDE OF THE PUMP CONTAINMENT ENCLOSURE.
3. DISCHARGE TUBING SHALL BE 3/8" OD LLDPE TUBING IN A CONTINUOUS LENGTH (NO FITTINGS) BETWEEN THE PUMP CONTAINMENT ENCLOSURE AND THE WALL PENETRATION. PROVIDE ONE CLEAR TUBE AND ONE TRANSLUCENT TUBE.
4. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS AND PER APPLICABLE ELECTRICAL CODE.
5. CORE BUILDING EXTERIOR WALL WITH OPENING 3/4" LARGER THAN OUTSIDE DIAMETER OF CHEMICAL FEED CONDUIT. SEAL PENETRATION USING EXTERIOR GRADE, NON-HARDENING, CAULKING COMPOUND.

IF THIS LINE IS NOT EQUAL
TO ONE INCH ADJUST
SCALES ACCORDINGLY

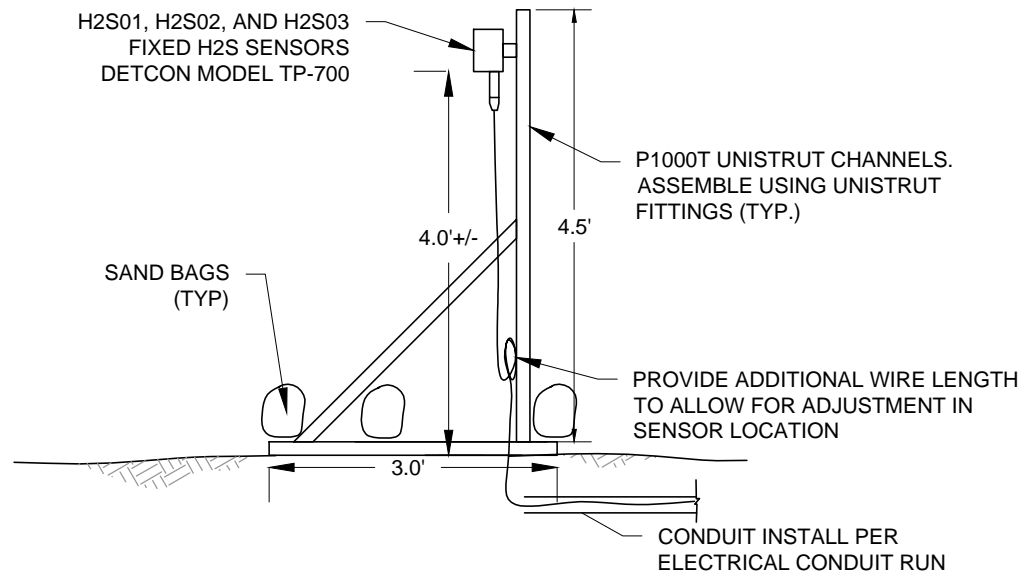
0 1"
|-----|

REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN	KF	<div>amec</div> <div>10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200</div>	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13	
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED	ARC				SCALE: NTS	
					CHECKED	CBF		SECTIONS AND DETAILS SHEET		SHEET: 24 OF 25	
					REVIEWED	STA				PROJ No: SA11161315	H24
DATUM UTM ZONE 125 FEET, NAD 83											

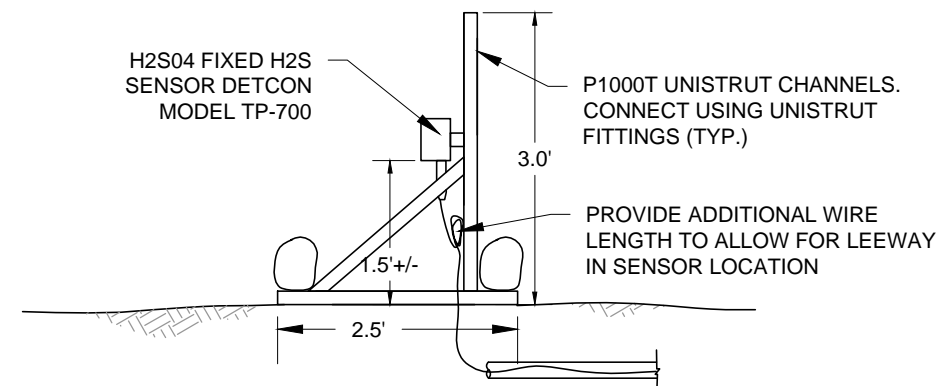
Plot Date: 12/24/13 - 1:51pm, Plotted by: kelly.leaney
Drawing Path: P:\Project\RICO - SA11161301\2013\CAD\Wetland Demonstration\Plan Set\, Drawing Name: MONITORING EQUIPMENT INSTALLATION DETAILS.dwg



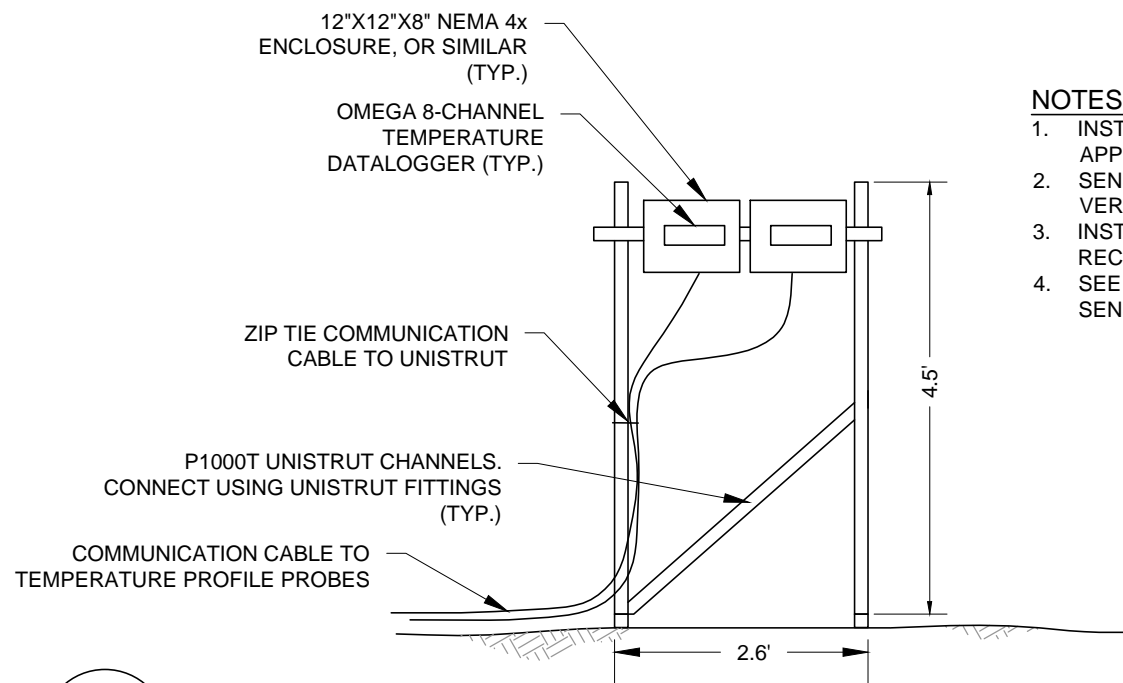
1 FIXED H2S SENSOR
G4,G5,H6,H7 MOUNTING DETAIL -
FRONT ELEVATION VIEW



2 FIXED BREATHING ZONE H2S SENSOR
G4,G5,H6,H7 MOUNTING DETAIL -
SIDE ELEVATION VIEW



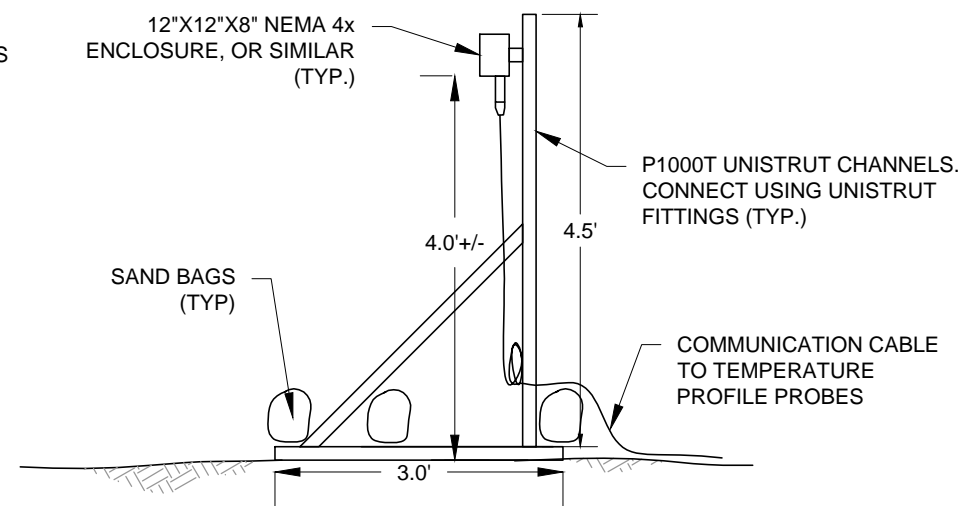
3 FIXED MAX CONCENTRATION H2S SENSOR
G4,G5,H6,H7 MOUNTING DETAIL -
SIDE ELEVATION VIEW



4 TEMPERATURE PROFILE PROBE DATA LOGGER
G4,H5,H7,H14,H18 MOUNTING DETAIL - FRONT ELEVATION VIEW

NOTES:

1. INSTALL SENSORS PER MANUFACTURER'S INSTRUCTIONS AND PER APPLICABLE ELECTRICAL CODES.
2. SENSORS SHALL BE INSTALLED SO THAT THE SENSOR IS MOUNTED VERTICALLY.
3. INSTALL UNISTRUT CHANNELS AND CONNECTORS PER THE MANUFACTURER'S RECOMMENDATIONS.
4. SEE MONITORING PLAN AND AERATION CHANNEL PLAN FOR FIXED H2S SENSOR LOCATIONS.



5 TEMPERATURE PROFILE PROBE DATA LOGGER
G4,H5,H7,H14,H18 MOUNTING DETAIL - SIDE ELEVATION VIEW

0 1" IF THIS LINE IS NOT EQUAL TO ONE INCH
ADJUST SCALES ACCORDINGLY

REFERENCES: PLANS	NO.	REVISION	DATE	APRVD	DRAWN_____KF	<div> 10670 White Rock Road, Suite 100 Rancho Cordova, CA 95670 (916) 636-3200</div>	RICO - ARGENTINE MINE SITE WETLAND DEMONSTRATION		DATE: 12/24/13		
	1	FINAL - ISSUED FOR EPA REVIEW	12/24/13	STA	DESIGNED_____KF				SCALE: NTS		
							CHECKED_____CBF	MONITORING EQUIPMENT INSTALLATION DETAILS		PROJ No: SA11161315	
							REVIEWED_____STA				
DATUM	UTM ZONE 125 FEET, NAD 83								H25		